



First Semiannual Monitoring Report
2014

Dayco Corporation/L.E. Carpenter Superfund Site,
Borough of Wharton, Morris County, New Jersey
USEPA ID No. NJD002168748

July 2014



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Prepared For
L.E. Carpenter & Company

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First Semiannual Monitoring Report 2014
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Section 1

Introduction and Summary

TRC Environmental Corporation (TRC), on behalf of L.E. Carpenter & Company (LEC), has prepared this First Semiannual Monitoring Report for 2014. This report summarizes monitoring activities conducted at the Dayco Corporation/L.E. Carpenter Superfund Site (Site) located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1) during the first and second quarters of 2014 (1Q14, 2Q14). Quarterly groundwater and surface water monitoring events are performed and associated semi-annual reports are completed and submitted to the United States Environmental Protection Agency (USEPA), to comply with paragraph 49 of the 2009 Unilateral Administrative Order (UAO) issued to LEC by the USEPA (effective August 6, 2009).¹

The following monitoring activities were completed during the 1Q14 and 2Q14:

- Hydrogeologic and hydrologic assessments of shallow site groundwater and adjacent surface water bodies
- Quarterly groundwater quality monitoring for constituents of concern within the MW-30 area of concern (AOC)
- Annual groundwater quality monitoring for constituents of concern within the MW19/HS-1 AOC
- Semi-Annual Monitored Natural Attenuation (MNA) groundwater monitoring within the MW-30 area, and annual MNA groundwater monitoring within the MW19/HS-1 area
- Surface water quality assessments of the Rockaway River and Eastern Drainage Channel

This report presents a discussion of monitoring activities performed during the period and results obtained for each of the monitored AOCs. A summary of observations and recommendations for monitoring program modifications are as follows:

- MW19/HS-1: Based on the data obtained since the 2010 removal of source material, the following performance monitoring program modifications for the MW-19/HS-1 area were approved by USEPA on March 19, 2014 and were implemented in 2014:
 - Given continued reductions in concentrations and plume area due to natural attenuation, groundwater monitoring within the MW-19/HS-1 area has been

¹ In February 2012, USEPA approved a change to semiannual reporting of findings from the quarterly monitoring events.

reduced to once per year. These annual events will typically occur during the second quarter.

- Monitoring wells MW-19-5R, MW-19-7R, and MW-19-13 will continue to be sampled in future annual performance monitoring events.

Shallow groundwater flow in the MW19/HS-1 area continues to be generally toward the northeast, with localized groundwater flow on both the north and south sides of Ross Street influenced by the utility corridor housing the large regional storm sewer line located in the center of Ross Street.

Analytical data collected during the 2Q14 annual event shows that benzene, toluene, ethylbenzene, and xylenes (BTEX) are only present above New Jersey Groundwater Quality Standards (NJGWQS) in the groundwater sample from monitoring well MW-19-5R (see Figure 4). BTEX constituents are not present above their respective NJGWQS in any other monitoring well sampled in the MW19/HS-1 area. Additionally, concentrations of the MNA parameters dissolved in groundwater continue to show that natural attenuation via biodegradation remains strong following removal of source material.

- MW-30 AOC: Based on data obtained since the 2005 Source Reduction, the following performance monitoring program modifications for the MW-30 area were approved by USEPA on March 19, 2014 and were implemented in 2014:
 - Given that BTEX has not been detected at concentrations above the NJGWQC in selected monitoring wells for five or more years, BTEX constituents were removed from the analytical program for the following MW-30 area monitoring wells: MW-8, MW-28s, MW-28i, MW-29s, MW-30s(R), MW-30i, and MW-30d.
 - Monitoring for MNA parameters was reduced to once per year and will take place during the second quarterly event.

Shallow groundwater in the MW-30 area generally flows eastwards across most of the source reduction portion of the MW-30 area, similar to flow observed prior to the 2005 Source Reduction. Shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam. Further east, shallow groundwater becomes influent to the drainage ditch and to the Rockaway River near MW-8.

Concentrations of constituents of concern (COCs) detected within the MW-30 Post Remedial Monitoring Plan (PRMP) monitoring network continue to exhibit downward concentration trends consistent with previous monitoring periods.

A pilot scale phytoremediation system was installed in two areas of the MW-30 AOC in March 2013. The first area is located adjacent to monitoring well MW-35s; the second is located east of MW-31s. The pilot program included the installation of 51 TreeWell® System trees of various site specific species. A baseline post-installation well point sampling of groundwater was completed during the 3Q13 monitoring event. A second

well point sampling event to assess groundwater in the phytoremediation pilot study area is scheduled for 4Q14.

- **Surface Water (Eastern Drainage Ditch):** BTEX constituents were not detected at any surface water monitoring locations in the Eastern Drainage Channel during 1Q14 and 2Q14. DEHP was detected above the New Jersey Surface Water Quality Criteria (NJSWQC) of 0.95 µg/L in samples collected from three of the Eastern Drainage Channel surface water sampling locations during 1Q14 (SW-D-2, SW-D-3, SW-D-4). DEHP was not detected above the NJSWQC from any of the Eastern Drainage Channel surface water sampling locations during 2Q14.
- **Surface Water (Rockaway River):** BTEX constituents were not detected at any surface water monitoring locations in the Rockaway River surface water sampling locations during 1Q14 and 2Q14. DEHP was detected above the NJSWQC in samples from two of the Rockaway River surface water sampling locations during 1Q14 (SW-R-1 at 1.0 µg/L and SW-R-4 at 130 µg/L). DEHP in the 1Q14 SW-R-4 sample, collected on March 24, 2014, was initially analyzed on March 28, 2014 with a result of 130 µg/L. After reviewing historical surface water sample results, TRC determined this result was anomalous and requested the lab to reanalyze the sample. The sample was re-extracted outside of hold time and reanalyzed on April 15, 2014 with a result of <1.9 µg/L. An additional confirmation sample was collected and submitted for analysis on April 17, 2014 with a result of <1.0 µg/L. DEHP was not detected above the NJSWQC from any of the Rockaway River surface water sampling locations during 2Q14.

Section 2

Sampling Approach and Methods

The 1Q14 and 2Q14 monitoring activities were conducted from March 24 through March 26, 2014 and June 2 through June 4, 2014, respectively. A site plan showing current conditions and locations of the monitoring points sampled during the 1Q14 and 2Q14 sampling activities are shown on Figure 2. A copy of the field notes for both events are provided in Appendix A.

2.1 Water Level Measurements

Static groundwater levels were measured within 35 groundwater monitoring wells throughout the Site on March 26, 2014 and June 4, 2014 as part of the 1Q14 and 2Q14 sampling activities. In addition, surface water levels were measured at eight separate locations along the Rockaway River and four locations along the Eastern Drainage Channel. Staff gauge SW-R-6 was damaged by storm events prior to the 4Q13 sampling event and will be replaced during an upcoming sampling event.

2.2 Site-wide Groundwater Sampling

Groundwater monitoring was performed in accordance with the procedures contained in the New Jersey Department of Environmental Protection's (NJDEP's) *Field Sampling Procedures Manual* dated May 1992 (Revised August 2005), and methodologies outlined in the May 2001 MNA work plan. The MNA work plan was approved by NJDEP on January 24, 2002.

Two sample duplicates, two trip blanks, a field (atmosphere) blank, one matrix spike/matrix spike duplicate (MS/MSD), and two rinsate blanks were collected during each event to satisfy quality assurance/quality control (QA/QC) requirements outlined in the revised Quality Assurance Project Plan (QAPP) presented as Appendix C in the PRMP.

The trip blanks were prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for BTEX. The 1Q14 duplicate samples were collected at MW-34S (Dup-01) and SW-D-4 (Dup-02), and analyzed for BTEX and DEHP. The 2Q14 duplicate samples were collected at SW-D-2 (Dup-01) and MW-35S (Dup-02), and analyzed for BTEX and DEHP; Dup-02 was also analyzed for MNA parameters. Rinsate blanks RB-01 and RB-02 were collected by circulating distilled water through the cleaned bladder pump assemblies to verify that decontamination procedures were adequate. Sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox®) and clean water wash followed by a distilled water rinse.

The field (atmosphere) blank was collected by opening a bottle of unpreserved distilled water, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. Groundwater samples were submitted to Trace Analytical Laboratories, Inc. (Trace), located in Muskegon, Michigan for BTEX, DEHP, and MNA parameter analyses (State of New Jersey Laboratory Certification No. MI008).

2.3 Surface Water Sampling

As part of the 1Q14 and 2Q14 monitoring events, five surface water locations (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) were sampled within the Eastern Drainage Channel that separates the adjacent Air Products property from the LEC Site and the adjacent Wharton Enterprises property. This channel sampling program initially began at the request of NJDEP as outlined in their letter dated March 23, 2005. Surface water samples were also collected at the intersection of the Eastern Drainage Channel and the Rockaway River (approximately 10 feet upstream in the Eastern Drainage Channel, DRC-02) and at five surface water samples from the Rockaway River (SW-R-1, SW-R-2, SW-R-3, SW-R-4, SW-R-6) as shown on Figure 2.

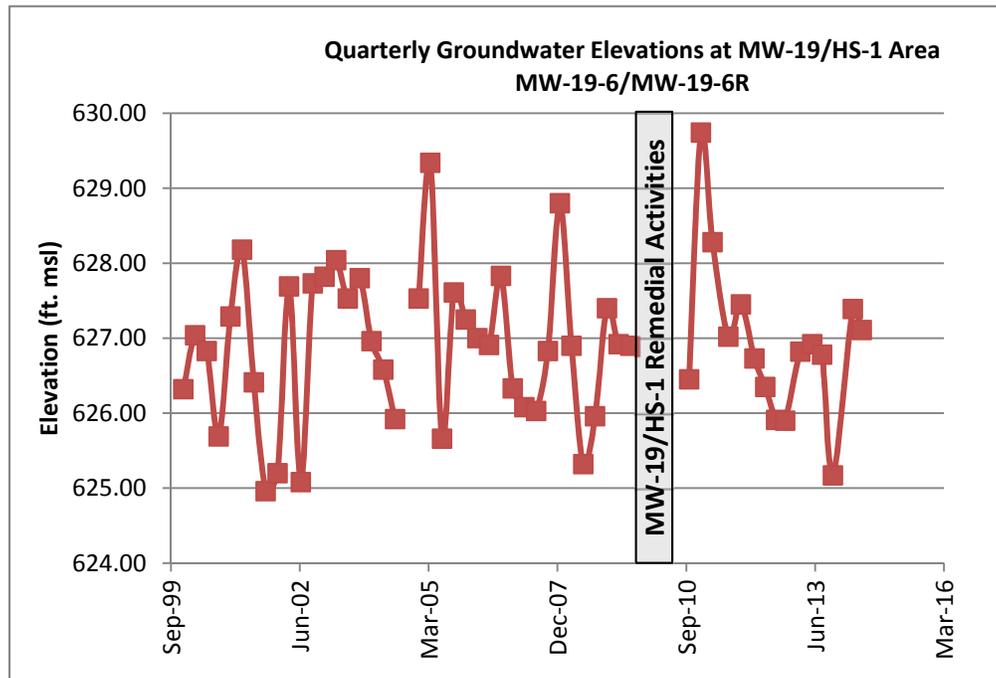
Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP and associated QAPP. Surface water samples were submitted to Trace for analysis of BTEX and DEHP.

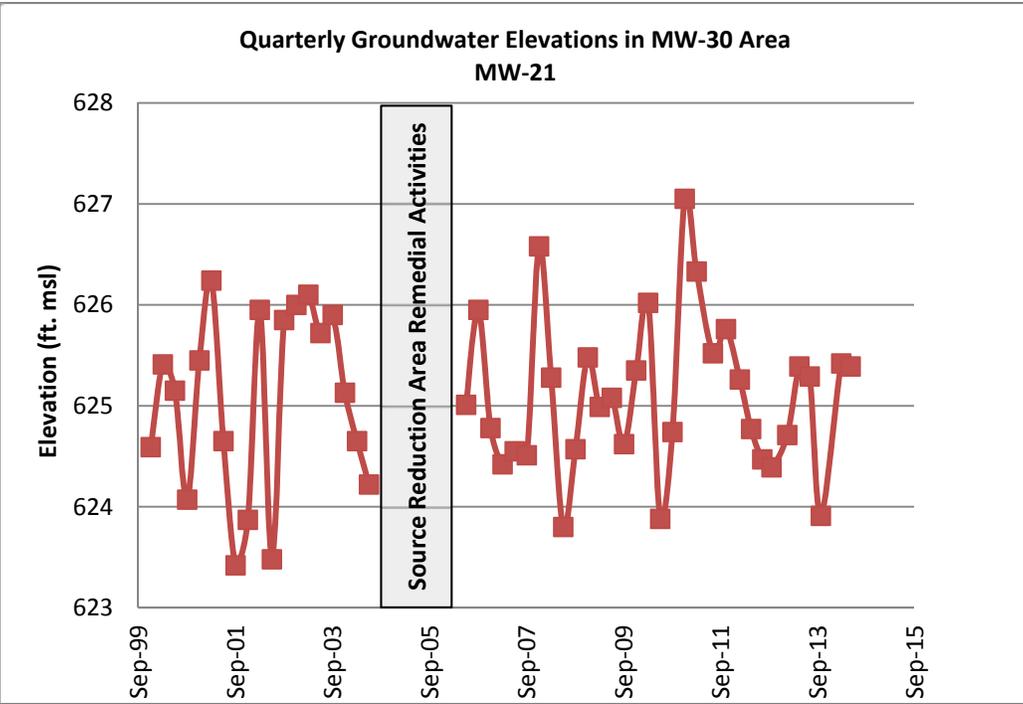
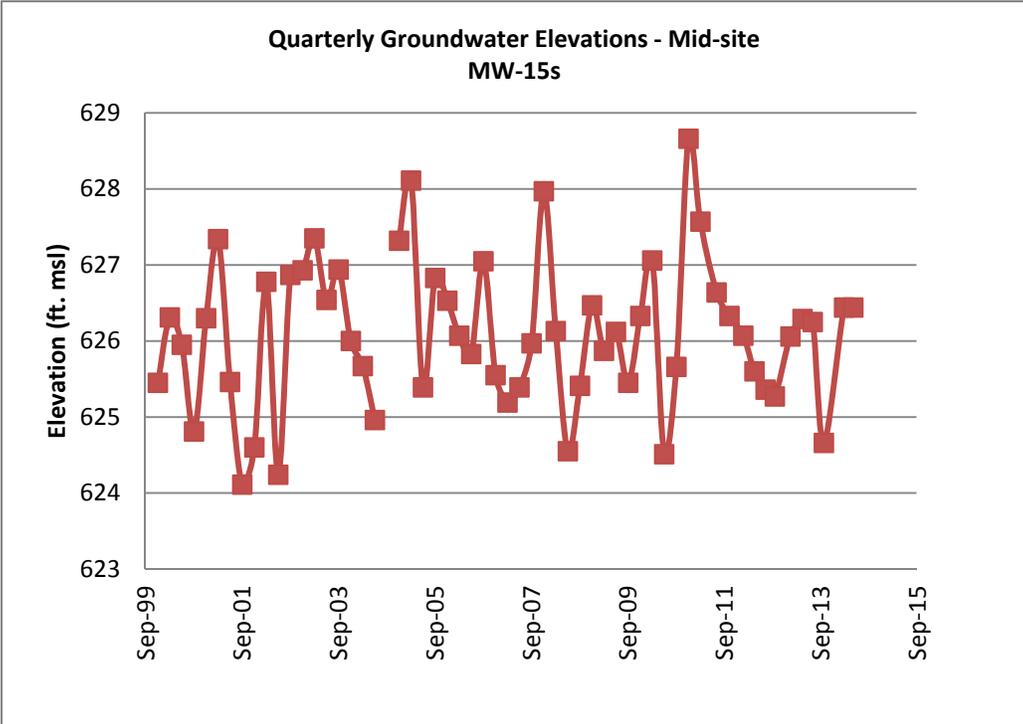
Section 3

Groundwater Elevation and Shallow Groundwater Flow

Static groundwater levels were measured within 35 groundwater monitoring wells throughout the Site on March 26, 2014 and June 4, 2014 as part of the 1Q14 and 2Q14 sampling activities. In addition, surface water levels were measured at eight separate locations along the Rockaway River and four locations along the Eastern Drainage Channel. These data were used to calculate groundwater elevations (Table 1) with respect to the National Geodetic Vertical Datum (NGVD), and evaluate the site-wide groundwater flow pattern in the shallow aquifer system. Interpretation of the calculated groundwater elevations yielded site-wide shallow groundwater contours and associated approximate flow pattern that are shown on Figures 3a and 3b for 1Q14 and 2Q14 events, respectively. The contours were prepared by utilizing the surveyed groundwater elevations from the PRMP wells, existing Site wells, and river and Eastern Drainage Channel surface water elevations.

As indicated in the graphs below, groundwater elevations measured at the MW-19/HS-1 AOC fluctuate between 625 feet NGVD to 630 feet NGVD, and within the MW-30 AOC between 624 feet NGVD to 627 feet NGVD.





3.1 MW19/HS-1 Area of Concern

As previously observed, shallow groundwater in the MW19/HS-1 area is generally toward the northeast (Figures 3a, 3b, and 4). Groundwater on both the north and south sides of Ross Street is locally influenced by the utility corridor located in the center of Ross Street where a large regional storm sewer line is located.

3.2 MW-30 Area of Concern

Shallow groundwater flow in the MW-30 area is similar to flow observed at the Site prior to the Source Reduction in that shallow groundwater at the Site is recharged by Washington Forge Pond, as well as the first 600 feet of the Rockaway River below the dam. This “losing” reach of river is identified by approximate flow direction arrows on Figures 3a and 3b. Further east towards the wetland, shallow groundwater again becomes influent to the river.

Surface water elevation data for the man-made Eastern Drainage Channel is consistent with its current configuration as a U-shaped pond formed as a result of downstream beaver dams (Figures 2 and 3). As shown by the flow arrows on Figure 3a and Figure 3b, shallow groundwater on-site becomes influent to the Eastern Drainage Channel and the Rockaway River surface water. The flow-path into the Eastern Drainage Channel is supported by the occasional low detections of DEHP in some of the Eastern Drainage Channel surface water samples (see Section 5).

Further into the wetland area east of the Site, in the vicinity of monitoring location MW-21, groundwater is typically mounded slightly and flows north into the ditch system, south to the river, and west back towards the Source Reduction Area. This condition has remained relatively consistent over the period of remedial investigations conducted on the Site. A lack of detectable constituents within monitoring wells MW-21, MW-25(R), and former wells MW-14S and MW-14I support the flow path from the eastern wetland towards the western wetland. In addition, the construction of the regional sewer line (Figure 3a) did not encounter contamination until construction had progressed from east to west to the westernmost end shown on Figure 3a and Figure 3b. These data demonstrate adequate delineation of groundwater contamination, and indicate that contaminant migration is not occurring further east than the delineated area shown on Figures 5a, 5b, 6a, and 6b.

Section 4

MW-19/Hot Spot 1 Area

A comprehensive investigative and remedial history of the MW19/HS-1 AOC is presented in the 4th Quarter 2007 Remedial Action Progress Report (RAPR). As outlined in the RAPR, the MW19/HS-1 AOC has been under investigation since the early 1980s. Activities began with subsurface investigation and subsequent removal of two underground storage tanks (USTs) that provided bulk liquid waste storage for historical operations in the former Building 9. Long-term monitoring and investigation of groundwater quality within the area, as well as a soil gas investigation performed in 2006, showed that naturally occurring biodegradation was occurring, resulting in a stable dissolved phase “plume” that was shrinking over time, and did not pose a risk to the residences on the north side of Ross Street.

In the June 20, 2007, Notice of Deficiency (NOD) pertaining to review of the May 2006 Soil Gas Investigation Report, NJDEP stated that the extended time frame for degradation of dissolved phase groundwater contamination post source removal [USTs and surrounding soils] suggested that residual source material remained and must be addressed. To support preparation of a Remedial Action Selection Report (RASR), an investigation of potential residual source material was performed in August 2007. Results of this investigation and a proposed remedial approach were presented in the RASR submitted to NJDEP and USEPA in September 2007.

LEC, USEPA, and RMT developed a Statement of Work (SOW) for concurrent implementation of the MW19/HS-1 area investigation and remediation, focusing the remedial alternative for this area on soil excavation. This approach was detailed in the September 3, 2009 Addendum to the USEPA approved RAWP. The Addendum to the RAWP was approved by USEPA on December 30, 2009. Implementation of the MW19/HS-1 area investigation and remediation began on January 11, 2010 and was substantially complete by April 23, 2010. Documentation of the remedial action was included in the RAR Addendum. The outline of the excavation area associated with that remediation is shown on Figure 2.

4.1 MW19/HS-1 Post-Remedial Performance Monitoring

The current post-remedial groundwater monitoring well network was proposed to USEPA for approval in the RAR Addendum. USEPA approval of the proposed network was received in their September 28, 2010 email requesting current MW19/HS-1 groundwater analytical data. Four replacement monitoring wells and five new groundwater monitoring wells were installed in November 2010 in accordance with the RAR Addendum and sampled quarterly from December 2010 through December 2013. USEPA approval for performance monitoring

modifications was received in a March 19, 2014 email which approved elimination of DEHP as a test parameter and reduced the MW-19/HS-1 area monitoring schedule to once per year, on a schedule that will typically occur during the second quarter at monitoring wells MW-19-5R, MW-19-7R, and MW-19-13 .

The analytical data from this monitoring network were utilized to evaluate the MW19/HS-1 post remedial groundwater quality (Figure 4).

4.2 Groundwater Quality Impacts

4.2.1 Site Contaminants of Concern

Groundwater samples were collected from the groundwater monitoring wells on June 6, 2014. Results of laboratory testing are summarized on Table 2. Figure 4 shows isoconcentration contours for BTEX constituents for 2Q14. Corresponding analytical laboratory reports are presented in Appendix B.

As shown on Figure 4, the current well network is adequate to define the extent of residual groundwater contamination that remains following the aggressive soil removal operation completed in early 2010. New and replacement wells installed post remediation were first sampled during the 4Q10 monitoring event. The current lateral extent “footprint” of dissolved BTEX detected in groundwater is significantly smaller than the extent reflected in the 4Q10 monitoring report.

Analytical data collected during the 2Q14 annual event shows that benzene, toluene, ethylbenzene, and xylenes (BTEX) are only present above NJGWQS in the groundwater sample from monitoring well MW-19-5R (see Figure 4). BTEX constituents are not present above their respective NJGWQS in any other monitoring well sampled in the MW19/HS-1 area.

4.2.2 Monitored Natural Attenuation Parameters and Data Analysis

Natural attenuation of petroleum hydrocarbons via biodegradation has been documented to be a universal phenomenon that occurs at 100 percent of sites with BTEX hydrocarbon contamination and is found to be protective at more than 80 percent of those sites (Wiedemeier, 1997). As discussed in prior quarterly groundwater monitoring reports, natural attenuation of BTEX components related to the residual soil contamination in the MW19/HS-1 AOC has been observed and is responsible for limiting the downgradient migration distance at the site. Concentrations of MNA parameters are summarized on Tables 3 and 4.

The MNA parameters continue to show that biodegradation remains strong, primarily along the outer edges of residual source material centered on MW-19-5R. During 2Q14, heterotrophic plate counts (HPC) levels show that microbial populations continue to thrive within the plume and supports the occurrence of natural attenuation via biodegradation.

In addition, electron donor zones that develop in the subsurface as a function of naturally occurring biodegradation are apparent in the 2Q14 data:

- The first zone downgradient from contaminant sources that is developed during degradation of hydrocarbon plumes is the methanogenic zone. Current data at the Site shows that methanogenesis remains strong in the current plume core, which now is centered on and limited to the immediate area surrounding MW-19-5R as shown on Figure 4. Specifically, 62,000 µg/L of methane was detected in MW-19-5R during the 2014 annual event. (Table 3).
- Reduction of ferric iron as a result of biodegradation is typically the second electron donor zone produced during degradation of hydrocarbon plumes. This process has resulted in relatively high concentrations of ferrous iron within MW-19-5R.

Because of the strong MNA documented above and in previous reports and corresponding downward trends in BTEX concentrations, TRC anticipates that remaining contaminants dissolved in groundwater observed only at monitoring well MW-19-5R will continue to attenuate over time.

4.3 Performance Monitoring Summary

The MW19/HS-1 groundwater observations are summarized as follows:

- Groundwater flow at the Site is east-northeast and does not flow from the Site to the homes along the north side of Ross Street.
- Monitoring well MW-19-5R is the only well with any BTEX constituents above the NJGWQS. This observation confirms that the excavation effectively removed sources that had previously been located under the former Building 19 and associated drains.
- Data show that natural attenuation via biodegradation of residual contamination continues at MW-19-5R and the small area immediately surrounding that well.

Section 5

MW-30 Area

The MW-30 Area consists of the 2005 Source Reduction Area and an adjacent downgradient wetland area (Figure 2). The 2005 Source Reduction was implemented in the MW-30 area to remove as much of the Light Non-Aqueous Phase Liquid (LNAPL) and associated soil contamination as possible. It was anticipated that some dissolved-phase contamination would remain in groundwater following the Source Reduction, and that residual groundwater contamination would be addressed as part of a formal Record of Decision (ROD) amendment. The 2005 Source Reduction was a success in that no free product has been measured within the Source Reduction Area since completion of that work and implementation of the PRMP. Groundwater data summarized below shows significant downward trends for all site COCs within the Source Reduction portion of the MW-30 Area. Groundwater contamination within the Source Reduction Area and residual contamination within the adjacent wetland area is being monitored and addressed as described below.

As shown on Figures 5a, 5b, 6a, and 6b, the current monitoring network defines the current extent of groundwater contamination that remains within the MW-30 area. The affected groundwater is bounded by monitoring well MW-25(R) to the east, by the surface water monitoring points within drainage ditch between MW-30 and the offsite Air Products property to the north, and the Rockaway River surface water sampling locations to the south. Residual contamination associated with the wetland area adjacent to the easternmost extent of the Source Reduction Area represents the bulk of remaining on-site groundwater contamination (Figures 5a and 5b), although lower concentrations of DEHP continue to be detected within the Source Reduction area (Figures 6a and 6b). MW-25R has typically been non-detect with respect to site COCs (except for sporadic very low level concentrations). These data, together with previous information (see west termination of abandoned stretch of regional sewer shown on Figures 3A and 3B), permanent and temporary well data, groundwater elevation contours, and flow directions define the easternmost limit of site contaminants. The mass of the residual contaminants and dissolved-phase plume within the wetland area are effectively characterized by monitoring wells MW-31 through MW-35.

5.1 Source Reduction Area

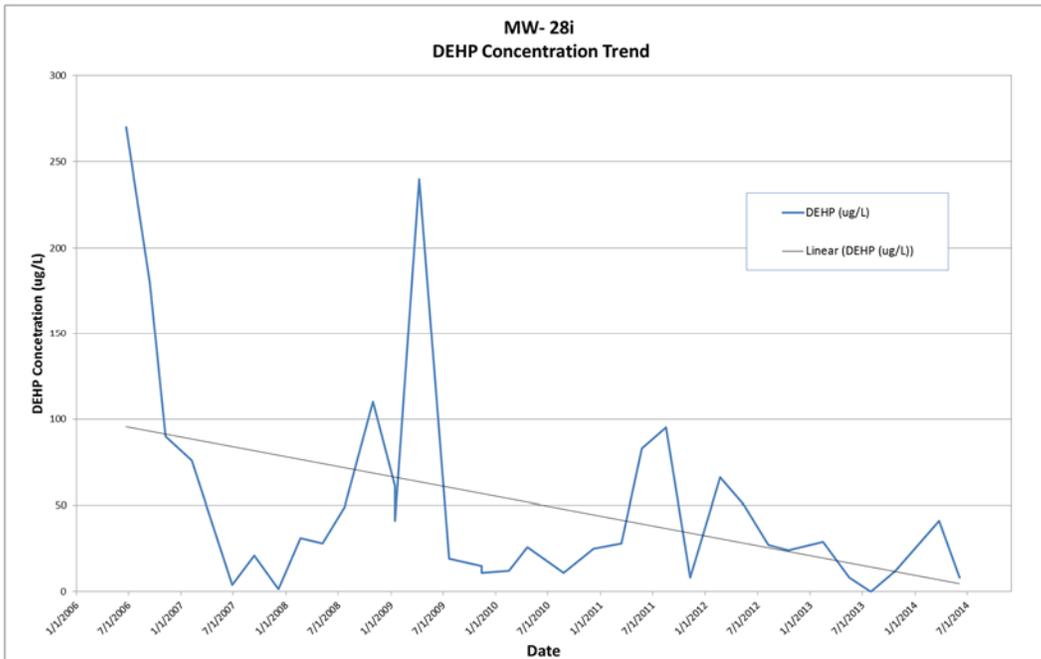
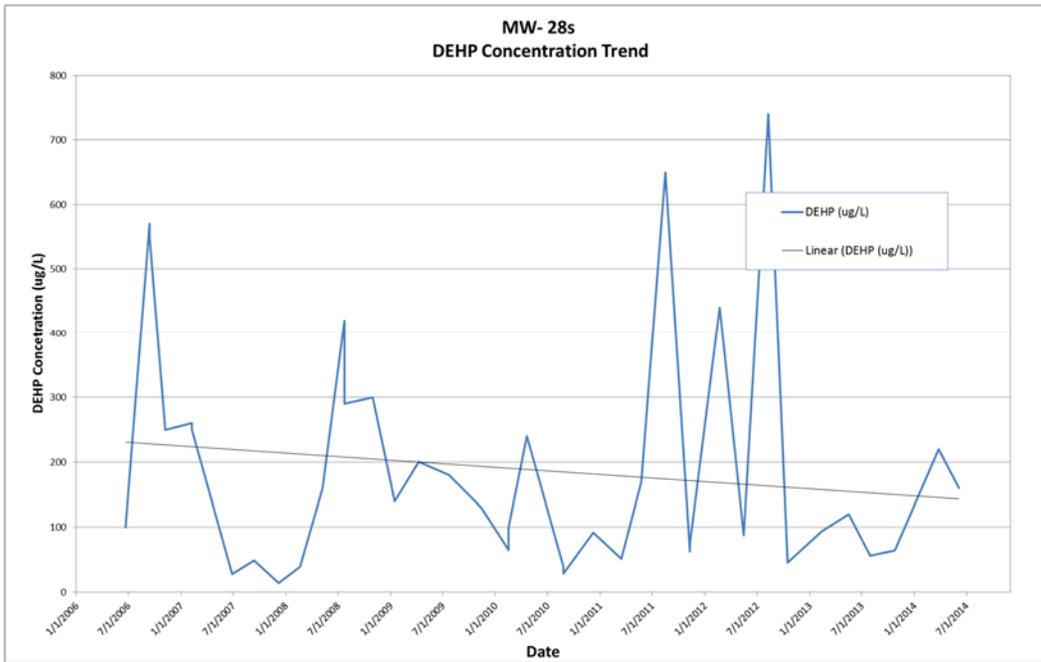
Monitoring well clusters MW-28 and MW-30 are within the 2005 Source Reduction area. Data from these wells show that the Source Reduction successfully removed the bulk of LNAPL and soil contamination and continue to display downward concentration trends for dissolved

constituents since the Source Reduction was completed. The analytical results from previous monitoring events are summarized in Tables 2 through 5.

The shallow wells that lie within the central (MW-28 cluster) and downgradient (MW-30 cluster) portions of the Source Reduction area both have screens that were placed just below the bentonite-cement slurry monolith that was created as a result of the remedial activities. At both locations, intermediate monitoring wells MW-28i and MW-30i were installed and screened approximately 5 feet below the bottom of the shallow well screen (15 to 20 feet below ground surface [ft bgs] and 10 to 15 ft bgs, respectively.)

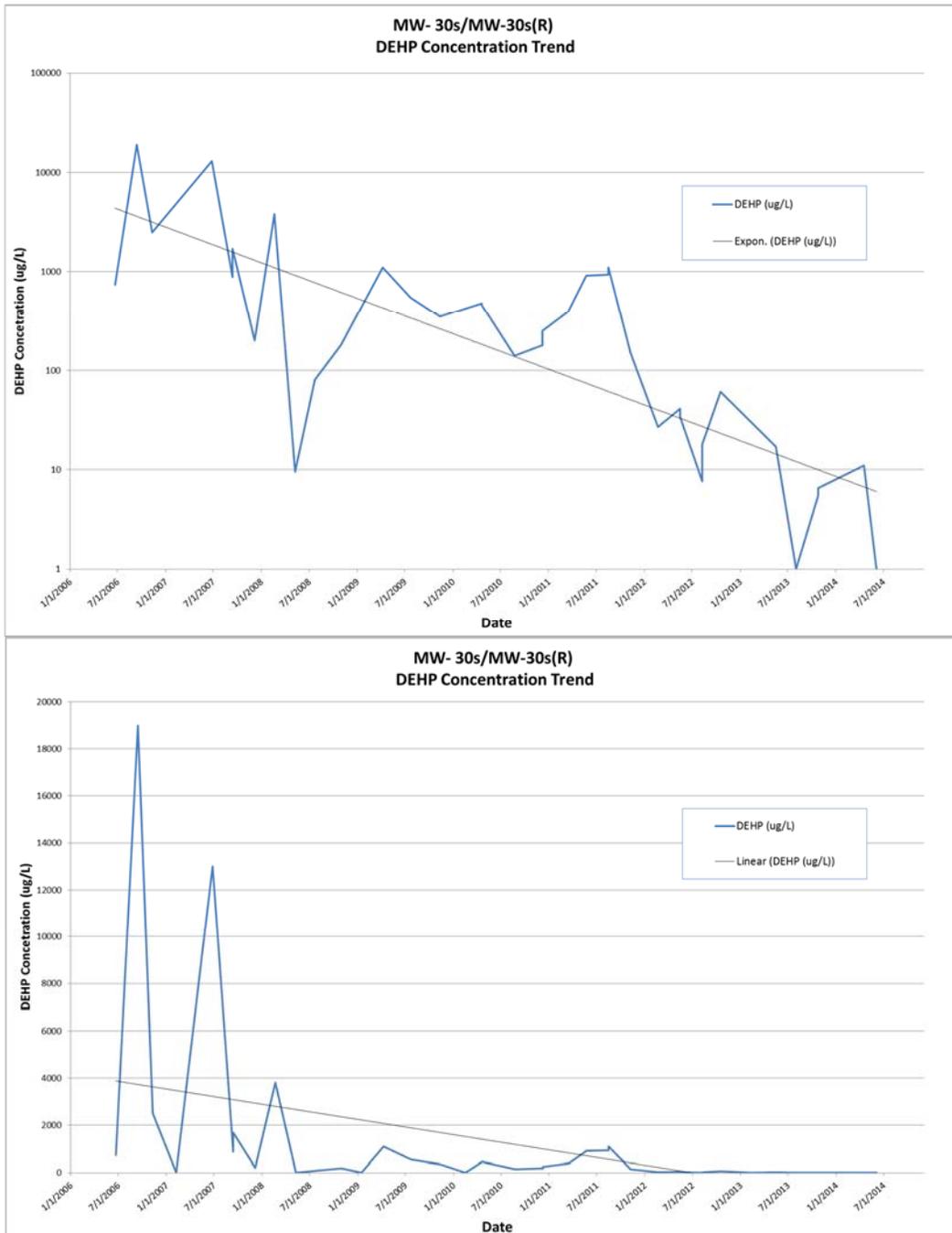
BTEX concentrations in the Source Reduction Area interior monitoring wells MW-28s and MW-28i (Table 2) have been well below their respective Class II-A NJGWQS since 4Q06. Benzene and toluene have not been detected in monitoring well MW-28s for at least seven quarterly sampling events. No BTEX compounds have been detected in MW-28i for the last three years. Likewise, BTEX concentrations at MW-30s(R) have remained well below the Class II-A NJGWQS since 4Q2007, and have been non-detect since 2Q2013. These data were the basis for terminating BTEX testing beginning with the first quarter of 2014. Termination of BTEX testing in these MW-30 Area wells was approved by USEPA on March 19, 2014.

Dissolved DEHP concentrations continue to fluctuate at both MW-28s and MW-28i, as shown below. Since the 2Q13 event, DEHP levels have returned to the lower range of concentrations detected prior to 3Q11. Relatively elevated levels of DEHP found during the 3Q11, 2Q12, and 3Q12 events are likely related to high levels of turbidity in those specific groundwater samples. The overall trend of DEHP concentrations are declining as shown in the following graphs:



Dissolved Site COCs also continue to be present in groundwater samples collected from Source Reduction Area downgradient well MW-30s(R). However, only DEHP remains above NJGWQS; all BTEX concentrations have been either non-detect or below NJGWQS in MW-30s and MW-30s(R) since 1Q08, and as described above, BTEX monitoring was discontinued beginning with the 1Q14 monitoring event. The concentration of DEHP in well MW-30s(R), while fluctuating somewhat from quarter to quarter, has a strong declining trend, with a

reduced DEHP concentrations of 11 µg/L in 1Q14. Further reductions in DEHP concentration was observed during the 2Q14 event with a nondetectable result of 4.7U µg/L; however the actual value was likely lower because the result is considered a false positive due to the similar concentration detected in the equipment rinse blank sample. Specifically, DEHP was detected in RB-01 at 1.9 µg/L. Concentrations remain only slightly above NJGWQS (3 µg/L) as shown in the following trend graphs:



Only sporadic low-level detections of DEHP have been found in groundwater collected from monitoring wells MW-30i and MW-30d since they were installed in 2006. DEHP concentrations have not been detected in either MW-30i or MW-30d above the NJGWQS since 2012, including during the 1Q14 and 2Q14 sampling events.

5.2 Wetland Area

As part of the 1Q14 and 2Q14 monitoring events, the five wetland area monitoring wells (MW-31s, MW-32s, MW-33s, MW-34s, and MW-35s) were sampled and tested for site COC's. The location of these wells, with respect to the Source Reduction and wetland areas, are shown on Figure 2; with the exception of MW-31s, all of these wells are located outside of and downgradient from the Source Reduction excavation area.

Prior to the 2Q13 event, TRC initiated an in-field pilot study to assess the viability of phytoremediation to reduce COCs in groundwater and soil in the wetland area, where a total of 51 TreeWell® System trees were planted in March 2013 at the locations shown on Figures 3a-b, 5a-b, and 6a-b.

During 1Q14, groundwater samples collected from wetland area wells MW-32s and MW-35s had concentrations of benzene, ethylbenzene and total xylenes above the higher of the NJGWQS and PQL, and MW-31s had concentrations of ethylbenzene and total xylene above the higher of the NJGWQS and PQL (Table 2; Figure 5a). Groundwater samples collected from MW-31s, MW-32s, MW-33s, MW-34s, and MW-35s also contained concentrations of DEHP above the greater of the NJGWQS and PQL (Table 2 and Figure 6a).

During 2Q14, groundwater samples collected from wetland area wells MW-31s, MW-32s, and MW-35s had concentrations of benzene, ethylbenzene and total xylenes above the higher of the NJGWQS and PQL, and MW-34s had concentrations of benzene and total xylene above the higher of the NJGWQS and PQL (Table 2; Figure 5b). Groundwater samples collected from MW-31s, MW-32s, MW-33s, MW-34s, and MW-35s also contained concentrations of DEHP above the greater of the NJGWQS and PQL (Table 2 and Figure 6a).

Free product measurements were conducted with an interface probe. Free product was detected at MW-32s during the 2Q14 event at a thickness of 0.05 feet. The concentration trends of dissolved benzene, ethylbenzene, and xylenes as well as effectiveness of the phytoremediation pilot study will continue to be monitored.

Concentrations of detected MNA parameters collected from the wetland area are summarized on Tables 3 and 4.

Section 6

Surface Water

The Rockaway River adjacent and downstream from the LEC Site is classified as a Category 1 fresh water trout maintenance stream (FW2-TM(C1); ref. Surface Water Quality Standard Reference: N.J.A.C. 7:9B-1.15 (e), Table 3 January 2010; (Dover) – Washington Pond outlet downstream to Rt. 46 bridge). In N.J.A.C. 7:9B-1.4, "Category 1 waters" means those waters designated in the tables in N.J.A.C. 7:9B-1.15(c) through (g), for purposes of implementing the antidegradation policies set forth at N.J.A.C. 7:9B-1.5(d), for protection from measurable changes in water quality based on exceptional ecological significance, exceptional recreational significance, exceptional water supply significance, or exceptional fisheries resource(s) to protect their aesthetic value (color, clarity, scenic setting) and ecological integrity (habitat, water quality, and biological functions). As such, TRC compared Site COC concentrations detected in the Eastern Drainage Channel and Rockaway River samples against background concentrations found in upgradient sample SW-R-6, collected below the Washington Forge Pond dam, at the upgradient end of the Site.

6.1 Eastern Drainage Channel

As part of the 1Q14 and 2Q14 events, five points (SW-D-1, SW-D-2, SW-D-3, SW-D-4, and SW-D-5) within the Eastern Drainage Channel that separates the adjacent Air Products property from the LEC Site and the adjacent Wharton Enterprises property were sampled for surface water quality. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005.

All surface water sample locations are shown on Figure 2. The laboratory analytical results for these Eastern Drainage Channel samples are summarized on Table 5, and Figures 5a, 5b, 6a, and 6b.

BTEX constituents were not detected at any surface water monitoring locations in the Eastern Drainage Channel during 1Q14 and 2Q14. DEHP was detected above the NJSWQC in samples collected from three of the Eastern Drainage Channel surface water sampling locations during 1Q14 (SW-D-2, SW-D-3, SW-D-4). DEHP was not detected above the NJSWQC from any of the Eastern Drainage Channel surface water sampling locations during 2Q14.

6.2 Rockaway River

In addition to the Eastern Drainage Channel, five surface water samples were collected from the Rockaway River (Table 5 and Figures 5a, 5b, 6a, and 6b).

BTEX constituents were not detected at any surface water monitoring locations in the Rockaway River surface water sampling locations during 1Q14 and 2Q14. DEHP was detected above the NJSWQC in samples from two of the Rockaway River surface water sampling locations during 1Q14. The DEHP sample result from monitoring location SW-R-1 was just above NJSWQC standards at 1.0 µg/L. DEHP in the SW-R-4 sample, collected on March 24, 2014, was initially analyzed on March 28, 2014 with a result of 130 µg/L. After reviewing historical surface water sample results, TRC determined this result was anomalous and requested the lab to reanalyze the sample. The sample was re-extracted outside of hold time and reanalyzed on April 15, 2014, with a result of non detected (<1.9 µg/L). An additional confirmation sample was collected and submitted for analysis on April 17, 2014 which confirmed that DEHP was not detected (<1.0 µg/L). DEHP was not detected above the NJSWQC from any of the Rockaway River surface water sampling locations during 2Q14.

River sample SW-R-6 was taken just downstream of the Washington Forge Pond dam. As a result of USEPA comments in an email dated December 21, 2009, this location serves as the background monitoring location for the Site. Surface water samples SW-R-1 through SW-R-4, are compared to the results of SW-R-6, per N.J.A.C. 7:9B-1.5 (d) 6iii. DEHP was not detected in the surface water sample SW-R-6 during the 1Q14 and 2Q14 events.

Another surface water sample was collected in the Eastern Drainage Channel near its intersection with the Rockaway River (approximately 10 feet upstream in the Eastern Drainage Channel; see Figure 2). This location represents the surface water discharge point from the Eastern Drainage Channel/beaver pond into the Rockaway River. Neither BTEX nor DEHP were detected above the NJSWQC in the "Ditch-River Confluence" sample, DRC-2, during 1Q14 and 2Q14.

Section 7

Additional and Future Project Activities

LEC, USEPA, and RMT designed a SOW to accompany the UAO. Both the UAO and associated SOW were executed in August 2009. The following subsections briefly outline continuing UAO and SOW required activities anticipated for completion over the next 3 to 6 months. An updated Master Project Schedule is presented in Appendix C.

7.1 General and Administrative Site Scope and Tasks

Following receipt of USEPA approval of the Final RAWP Addendum documenting assessment and preferred remedial action for the MW-30 AOC:

- Finalize the Community Involvement Plan (CIP)
- Finalize the Revised RAWP Addendum and associated Uniform Federal Policy (UFP) compliant QAPP

7.2 Future AOC Scopes and Tasks

The following narrative outlines upcoming tasks for the MW-19/HS-1 and MW-30 AOCs.

- Continue quarterly surface water quality monitoring activities with semiannual reporting.
- Move forward with final implementation of a full scale remedial approach for the MW-30 AOC as presented in the April 26, 2012 Technical Memorandum.
- Finalize the RA Work Plan Addendum.

7.3 Wetland Monitoring, Invasive Species Control, and Reporting

The final wetland monitoring event occurred on May 28, 2014. The final monitoring and invasive species control annual report will be submitted in October 2014.

Ultimate wetland restoration was addressed in the Addendum to the USEPA-approved RAWP (RMT, April 2004), submitted September 3, 2009. Restoration of the wetlands will be coordinated with the implementation of the final remedy in the MW-30 AOC to be described in the Final RA Work Plan Addendum.

Tables

TABLE 1
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Elevations

First Semiannual
Monitoring Report 2014

Well Location Quarter Units	Ground Elevation ⁽⁶⁾	Outer Well Casing	Inner Well casing	Measure Date	Product	Water	Product	Water	Measure Date	Product	Water	Product	Water		
					Depth	Depth ⁽⁶⁾	Thickness	Elevation ⁽¹⁾		Depth	Depth ⁽⁶⁾	Thickness	Elevation ⁽¹⁾		
					First Quarter (3/24/2014)					Second Quarter (6/2/2014)					
				ft	ft	ft	ft					ft	ft	ft	ft
GEI-3I	636.96	639.39	639.25	3/24/2014	--	12.08	--	627.17	6/2/2014	--	12.07	--	627.18		
MW-12S(R)	631.57	634.26	633.73	3/24/2014	--	7.14	--	626.59	6/2/2014	--	7.63	--	626.10		
MW-13I	627.76	630.28	630.06	3/24/2014	NOT MEASURED				6/2/2014	NOT MEASURED					
MW-13S	627.74	630.80	630.63	3/24/2014	NOT MEASURED				6/2/2014	NOT MEASURED					
MW-13S(R)	627.66	630.36	629.99	3/24/2014	NOT MEASURED				6/2/2014	NOT MEASURED					
MW-15I	634.14	636.28	636.06	3/24/2014	--	9.61	--	626.45	6/2/2014	--	9.69	--	626.37		
MW-15S	634.23	636.43	636.17	3/24/2014	--	9.73	--	626.44	6/2/2014	--	9.73	--	626.44		
MW-17(S)	632.35	634.32	634.19	3/24/2014	--	7.48	--	626.71	6/2/2014	NOT MEASURED					
MW-19R	635.19	635.31	634.95	3/24/2014	--	7.36	--	627.59	6/2/2014	--	7.80	--	627.15		
MW-19-5R	635.51	635.54	635.20	3/24/2014	--	7.77	--	627.43	6/2/2014	--	8.10	--	627.10		
MW-19-6R	635.87	635.85	635.46	3/24/2014	--	8.07	--	627.39	6/2/2014	--	8.35	--	627.11		
MW-19-7R	635.30	635.36	634.97	3/24/2014	--	7.72	--	627.25	6/2/2014	--	7.96	--	627.01		
MW-19-8	635.57	635.52	635.11	3/24/2014	--	7.84	--	627.27	6/2/2014	--	8.19	--	626.92		
MW-19-12	634.93	634.93	634.46	3/24/2014	--	7.07	--	627.39	6/2/2014	--	7.39	--	627.07		
MW-19-13	634.87	634.81	634.33	3/24/2014	--	7.14	--	627.19	6/2/2014	--	7.39	--	626.94		
MW-19-14	635.07	635.14	634.82	3/24/2014	--	7.22	--	627.60	6/2/2014	--	7.65	--	627.17		
MW-19-15	635.56	635.57	635.26	3/24/2014	--	7.38	--	627.88	6/2/2014	--	7.96	--	627.30		
MW-19-16	634.66	634.67	634.35	3/24/2014	--	5.29	--	629.06	6/2/2014	--	6.12	--	628.23		
MW-19-17	636.26	636.25	635.85	3/24/2014	--	8.50	--	627.35	6/2/2014	--	8.77	--	627.08		
MW-21	624.57	628.49	628.20	3/24/2014	--	2.78	--	625.42	6/2/2014	--	2.81	--	625.39		
MW-25(R)	624.65	626.77	626.62	3/24/2014	--	2.31	--	624.31	6/2/2014	--	2.22	--	624.40		
MW-27s	635.82	635.78	635.07	3/24/2014	--	8.23	--	626.84	6/2/2014	--	8.43	--	626.64		
MW-28S	628.20	631.28	631.14	3/24/2014	--	5.19	--	625.95	6/2/2014	--	5.25	--	625.89		
MW-28I	628.25	631.20	631.04	3/24/2014	--	5.01	--	626.03	6/2/2014	--	5.14	--	625.90		
MW-29S	629.87	632.85	632.66	3/24/2014	--	6.90	--	625.76	6/2/2014	--	7.02	--	625.64		
MW-30S(R)	625.21	628.14	627.94	3/24/2014	NOT MEASURED				6/2/2014	--	2.54	--	625.40		
MW-30I	625.18	628.29	628.13	3/24/2014	NOT MEASURED				6/2/2014	--	2.63	--	625.38		
MW-30D	625.16	628.22	628.00	3/24/2014	NOT MEASURED				6/2/2014	--	2.44	--	625.58		
MW-31S	627.44	629.94	629.78	3/24/2014	--	4.25	--	625.53	6/2/2014	--	4.99	--	624.79		
MW-32S	627.72	630.23	630.15	3/24/2014	--	5.13	--	625.02	6/2/2014	6.20	6.25	0.05	623.95		
MW-33S	628.69	630.99	630.86	3/24/2014	--	5.87	--	624.99	6/2/2014	--	6.26	--	624.60		
MW-34S	627.21	629.87	629.91	3/24/2014	--	5.22	--	624.69	6/2/2014	--	5.95	--	623.96		
MW-35S	627.21	629.55	629.17	3/24/2014	--	4.32	--	624.85	6/2/2014	--	4.08	--	625.09		
MW-8	627.39	629.96	628.19	3/24/2014	--	2.63	--	625.56	6/2/2014	--	2.92	--	625.27		
MW-9	628.61	631.09	629.58	3/24/2014	--	4.56	--	625.02	6/2/2014	--	3.54	--	626.04		
DRC-02	623.29	--	--	3/24/2014	--	1.36	--	621.93	6/2/2014	--	1.79	--	621.50		
SW-D-1	626.69 ⁽⁷⁾	--	--	3/24/2014	--	2.85	--	622.90	6/2/2014	--	3.08	--	622.67		
SW-D-2	626.07	--	--	3/24/2014	--	2.14	--	623.93	6/2/2014	--	2.21	--	623.86		
SW-D-3	625.70	--	--	3/24/2014	--	1.69	--	624.01	6/2/2014	--	2.03	--	623.67		
SW-D-4	625.02	--	--	3/24/2014	--	2.25	--	622.77	6/2/2014	--	1.81	--	623.21		
SW-D-5	623.87	--	--	3/24/2014	--	3.16	--	623.70	6/2/2014	--	3.62	--	623.24		
SW-R-1	625.87	--	--	3/24/2014	--	2.34	--	623.53	6/2/2014	--	2.74	--	623.13		
SW-R-2	626.54	--	--	3/24/2014	--	2.07	--	624.47	6/2/2014	--	2.59	--	623.95		
SW-R-3	626.25	--	--	3/24/2014	--	1.54	--	624.71	6/2/2014	--	1.89	--	624.36		
SW-R-4	627.57	--	--	3/24/2014	--	2.28	--	625.29	6/2/2014	--	2.59	--	624.98		
SW-R-5	640.66	--	--	3/24/2014	--	1.46	--	639.20	6/2/2014	--	1.79	--	638.87		
SW-R-6	630.44 ⁽⁷⁾	--	--	3/24/2014	NOT MEASURED				6/2/2014	NOT MEASURED					
SG-R2	629.41	--	--	3/24/2014	--	2.05	--	627.36	6/2/2014	NOT MEASURED					

Notes

- (1) Corrected water level elevations for wells with measureable free product utilizing an average specific gravity of 0.9363 (TRC product sampling in October 1999).
- (2) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88
- (3) New SG-R2 replaced the old SG-R2 installed in Nov. 1998. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA May 2004. SG-R2 is a chiseled arrow on Iron Beam.
- (4) As outlined in the PRMP the six (6) new Rockaway River monitoring points reference survey elevation was shot at the top of a stake installed to each point.
- (5) SW-D-1, SW-D-2 and SW-D-3 were resurveyed points at the top of the stake that secures each drainage ditch staff gauge. These points were reshot to ensure the reference elevation integrity remained for each of the 3 staff gauges as a result of source reduction excavation disturbance.
- (6) Ground reference elevation for SG and SW series gauges and monitoring points is a point specific to each device (i.e., top of stake, top of gauge, notched point on concrete or iron, etc).
- (7) SW-R-6 and SW-D-1 were resurveyed in May 2013 due to ice flow damage within the river.

TABLE 2
 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Groundwater Monitoring - BTEX and DEHP Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	1,3-Butadiene	
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-19 (abandoned)	2/24/1995	<660	1,700	110,000	10,000	NM	--
	6/14/1995	150	3,400	140,000	17,000	NM	--
	4/24/1998	<1,000	2,850	76,700	14,900	6.6	--
	8/2/2001	<95	3,000	62,000	17,000	2.9	--
	6/6/2002	<200	1,000	30,000	6,000	5.6	--
	11/20/2003	<20	1,500	40,000	7,400	6.0 J	--
	6/15/2004	<100	1,400	46,000	6,600	4.0 J	--
	8/10/2004	<20	2,100	56,000	11,000	2.0 J	--
	1/13/2005	<10	750	18,000	3,600	<1.0	--
	4/8/2005 ^L	<1.0	97	1,300	530	3.0 J	--
	4/8/2005 ^U	<0.20	86	410	430	3.0 J	--
	7/27/2005	<40	1,100	44,000	6,000	2.0	--
	10/27/2005	<20	200	10,000	1,200	5.0 J	--
	2/28/2006	<50	880	28,000	4,900	3.0 J	--
	6/20/2006	<40	1,600	53,000	8,700	3.0 J	--
	9/13/2006	<40	2,100	51,000	11,000	3.0 J	--
	11/8/2006	<40	2,200	59,000	11,000	2.0 J	--
	2/8/2007	<500	1,900	93,000	9,800	<1.0	--
	6/27/2007	<50	680	32,000	3,000	<1.0	--
	9/12/2007	<100	1,500	76,000	7,300	2.6	--
12/4/2007	<250	1,500	49,000	7,500	<1.1	--	
2/20/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--	
5/7/2008	<100	650	26,000	2,800	<1.0	--	
7/23/2008	<10	1,000	35,000	5,400	<1.0	--	
10/29/2008	<40	1,400	43,000	6,800	3.0 J	--	
1/14/2009	<45	700	34,000	3,500	2.0 J	--	
4/8/2009 ⁽³⁾	<45	940	37,000	4,800	3.0 J	--	
7/22/2009	<45	1,100	48,000	5,700	1.0 J	--	
MW-19R	12/8/2010	<0.50	400	1,000	1,200	1.2	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	5/24/2011	<0.50	43	8.3	200	1.6	--
	8/16/2011	<0.50	39	230	120	<0.98	--
	11/9/2011	<0.50	<0.50	0.56	<1.5	<0.95	--
	2/22/2012	<0.50	<0.50	<0.50	<1.5	1.0	--
	5/16/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	20	--
	8/9/2012	<0.50	1.5	4.8	1.5	<1.0	--
	10/18/2012	<0.50	1.3	<0.50	<1.5	<1.0	--
	2/12/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
	5/15/2013	<0.50	0.8	<0.50	<1.5	<1.0	--
	7/31/2013	<0.50	<0.50	<0.50	<1.5	1.3 U	--
10/23/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	

LEGEND

ug/L = micrograms per liter
 J: Value estimated due to method exceeding QC limits.
 U: Analyte was detected in a method blank.
 PQL: Practical Quantitation Limit
 Bold concentrations are above reporting limits but below criteria.

FS= Well frozen.
 NS = Not Sampled
 NMW = Not Measured due to insufficient purge volume.
 D = Duplicate sample
 L = Lower Grab Sample
 U = Upper Grab Sample

Concentration exceeds NJGWQS

TABLE 2
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - BTEX and DEHP Data

First Semiannual
Monitoring Report 2014

Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	1,3-Butadiene	
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL)⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL⁽⁴⁾	1	700	600	1000	3	--	
MW-19-5 (abandoned)	3/12/1998	<1,000	1,920	123,000	10,100	42	--
	8/2/2001	<190	870	79,000	5,200	3.2	--
	3/7/2002	<140	300	10,000	1,700	1.3	--
	6/5/2002	<1,100	1,100	92,000	6,300	<9.8	--
	6/5/2002 ^D	<1,100	1,300	92,000	6,900	<9.4	--
	11/19/2003	<0.20	<0.20	4.3	0.9 J	<0.90	--
	12/18/2003	<0.20	3.7	240	24	<0.90	--
	6/16/2004	<100	1,400	83,000	7,400	1.0 J	--
	8/10/2004	<200	2,800	140,000	14,000	1.0 J	--
	1/13/2005	<2.0	64	3,100	340	<1.0	--
	4/9/2005 ^L	<40	1,000	27,000	5,300	1.0 J	--
	4/9/2005 ^U	<0.20	0.4 J	9.5	2.3 J	<1.0	--
	7/26/2005	<100	2,600	100,000	13,000	<0.90	--
	10/27/2005	<0.20	6.8	140	37	<1.0	--
	2/28/2006	<20	290	19,000	1,500	<1.0	--
	6/20/2006	<4.0	130	4,000	730	<1.0	--
	9/13/2006	<20	550	25,000	2,800	<1.0	--
	11/8/2006	<20	410	22,000	2,000	9.0	--
	2/8/2007	<500	2,100	98,000	10,000	<1.0	--
	6/27/2007	<100	1,700	98,000	8,200	<1.0	--
	9/12/2007	<100	1,100	67,000	5,200	1.4	--
	12/4/2007	<200	820	4,400	4,200	<1.1	--
	2/20/2008	<1.0	7.5	190	45	<1.0	--
	2/20/2008 ^D	<1.0	5.7	200	34	<1.0	--
	5/7/2008	7.2	270	15,000	1,300	<1.0	--
7/22/2008	<1.0	2,300	95,000	12,000	<1.0	--	
10/29/2008	<1.0	11	450	68	<1.0	--	
1/14/2009	<5.0	64	3,800	360	<1.0	--	
4/8/2009	<23	490	46,000	2,800	<1.0	--	
4/8/2009 ^D	<45	610	38,000	3,200	<1.0	--	
7/22/2009	<45	1,200	68,000	6,600	<1.0	--	
MW-19-5R	12/8/2010	19	2,700	80,000	15,000	1.4	--
	3/16/2011	20	2,100	92,000	11,000	<0.95	<1.0
	5/25/2011	5.4	2,200	49,000	12,000	1.2	--
	8/16/2011	8.8	2,600	55,000	13,000	1.4	--
	8/16/2011 ^D	10	2,600	52,000	13,000	1.1	--
	11/9/2011	5.4	3,900	51,000	22,000	0.95	--
	11/9/2011 ^D	7.0	3,500	46,000	15,000	120	--
	2/22/2012	14	2,800	51,000	15,000	<0.95	--
	2/22/2012 ^D	12	2,700	54,000	13,000	1.1	--
	5/16/2012 ⁽⁵⁾	7.6	1,000	22,000	4,800	5.8	--
	5/16/2012 ^D	7.1	1,000	23,000	4,700	1.6	--
	8/9/2012	13	2,800	63,000	15,000	1.2	--
	8/9/2012 ^D	13	2,800	63,000	15,000	13	--
	10/18/2012	11	2,200	51,000	13,000	<5.0	--
	10/18/2012 ^D	11	2,300	52,000	13,000	<5.1	--
	2/14/2013	14	2,500	54,000	13,000	<4.8	--
	2/14/2013 ^D	15	2,500	53,000	12,000	<4.8	--
	5/15/2013	12	1,600	44,000	8,400	<1.0	--
	7/31/2013	8.5	2,000	31,000	9,900	1.4 U	--
	7/31/2013 ^D	8.4	1,900	29,000	9,400	1.2 U	--
10/23/2013	6.9	1,000	18,000	4,400	1.1	--	
10/23/2013 ^D	7.5	1,200	22,000	5,200	1.1	--	
6/3/2014	3.7	830	11,000	3,600	--	--	

LEGEND

ug/L = micrograms per liter

J: Value estimated due to method exceeding QC limits.

U: Analyte was detected in a method blank.

PQL: Practical Quantitation Limit

Bold concentrations are above reporting limits but below criteria.

Concentration exceeds NJGWQS

FS= Well frozen.

NS = Not Sampled

NMW = Not Measured due to insufficient purge volume.

D = Duplicate sample

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TABLE 2
 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Groundwater Monitoring - BTEX and DEHP Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	1,3-Butadiene
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Solubility Limit ⁽⁴⁾		1700000	152000	515000	175000	334	--
Practical Quantitation Limit (PQL) ⁽⁴⁾		1	2	1	2	3	--
NJGWQS Class IIA ⁽⁴⁾		0.2	700	600	1000	2	--
Higher of NJGWQS and PQL ⁽⁴⁾		1	700	600	1000	3	--
MW-19-6 (abandoned)	11/15/1999	<62	94	3,400	500	32	--
	8/1/2001	<0.40	14	390	47	28	--
	6/5/2002	<0.22	1.7	13	4.1	2.3	--
	11/18/2003	<0.20	<0.20	0.3 J	<0.60	6.0 J	--
	6/17/2004	<0.20	0.4 J	1.1	1.2	0.3 J	--
	8/10/2004	<0.20	4.6	38	18	4.0 J	--
	1/13/2005	<0.20	4.0	36	14	1.0 J	--
	4/9/2005 ^L	<0.20	16	160	64	<1.0	--
	4/9/2005 ^U	<0.20	11	74	37	<1.0	--
	7/26/2005	<0.20	3.6	27	14	2.0 J	--
	10/27/2005	<0.20	5.4	110	25	<0.90	--
	2/28/2006	<0.20	5.8	65	23	<1.0	--
	6/20/2006	<0.20	1.7	3.2	5.0	<1.0	--
	6/20/2006 ^D	<0.20	1.7	3.2	4.9	<1.0	--
	9/12/2006	<0.20	0.3 J	1.0	0.9 J	<1.0	--
	11/7/2006	<0.20	0.3 J	<0.20	0.6 J	<0.90	--
	2/7/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	6/26/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	9/11/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
2/19/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--	
5/6/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--	
7/22/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--	
10/29/2008	<0.20	<0.20	<0.20	<0.60	<1.0	--	
1/14/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--	
4/7/2009	<0.90	1.0 J	8.0	4.0 J	<1.0	--	
7/21/2009	<0.90	<0.80	0.8	<0.90	<1.0	--	
MW-19-6R	12/8/2010	<0.50	7.1	100	63	8.1	--
	3/14/2011	<0.50	8.1	33	38	1.1	<1.0
	5/25/2011	<0.50	4.4	4.7	9.0	1.0	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.96	--
	11/9/2011	<0.50	5.6	16	3.2	<0.98	--
	2/22/2012	<0.50	3.5	1.3	<1.5	<0.96	--
	5/16/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	20	--
	8/9/2012	0.71	1.6	<0.50	<1.5	1.9	--
	10/17/2012	<0.50	<0.50	<0.50	<1.5	5.5	--
	2/12/2013	<0.50	0.89	12	6.5	<1.0	--
	5/14/2013	<0.50	1.3	3.2	5.3	<1.0	--
7/30/2013	<0.50	1.2	<0.50	3.8	2.1 U	--	
10/23/2013	<0.50	<0.50	<0.50	<1.5	<1.1	--	

LEGEND

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Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-19-7 (abandoned)	11/15/1999	<16	100	51	1,400	<4.1	--
	8/1/2001	6.7	6.6	13	680	<0.40	--
	3/7/2002	3.0	<1.3	<1.3	250	1.6	--
	6/5/2002	0.48	1.6	27	27	<0.40	--
	11/19/2003	4.7	0.4 J	0.3 J	460	1.0 J	--
	6/16/2004	2.8 J	130	2,100	630	<1.0	--
	6/16/2004 ^D	4.0 J	130	2,100	610	<1.0	--
	8/10/2004	2.0	1.6	1.3	20	<1.0	--
	1/12/2005	6.1	90	240	760	<1.0	--
	1/12/2005 ^D	2.9	45	120	380	<1.0	--
	4/7/2005 ^L	9.5 J	210	2,700	1,400	<1.0	--
	4/7/2005 ^U	13 J	370	5,600	2,300	<1.0	--
	7/27/2005 ^L	2.2	<0.20	0.2 J	1.7 J	<0.90	--
	7/27/2005 ^U	1.5	<0.20	0.5 J	2.4 J	<1.0	--
	10/27/2005	62 J	710	16,000	3,600	<1.0	--
	2/28/2006	7.5	4.9	0.3 J	870	<1.0	--
	2/28/2006 ^D	7.5	5.0	0.3 J	840	<0.90	--
	6/20/2006	6.5	19	0.6 J	550	<1.0	--
	9/12/2006	4.9	33	0.3 J	440	<1.0	--
	11/8/2006	2.6	<0.20	<0.20	26	<0.90	--
	2/7/2007	2.6	<1.0	<5.0	<3.0	<1.0	--
	2/7/2007 ^D	2.6	<1.0	<5.0	<3.0	<1.0	--
	6/27/2007	<1.0	<1.0	<5.0	23	<1.0	--
	9/11/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	12/5/2007	<1.0	<1.0	<5.0	<3.0	<1.1	--
	2/19/2008	<1.0	7.3	55	36	<1.0	--
	5/7/2008	<1.0	<1.0	<5.0	5.6	<1.0	--
	7/22/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
10/28/2008	<0.20	<0.20	<0.20	<0.60	<1.0	--	
10/28/2008 ^D	<0.20	<0.20	<0.20	<0.60	<1.0	--	
1/14/2009	<0.90	3.0 J	3.0 J	32	<1.0	--	
4/7/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--	
7/21/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--	
MW-19-7R	12/8/2010	<0.50	<0.50	<0.50	<1.5	<0.96	--
	3/14/2011	11	1,400	33,000	6,200	<1.0	<1.0
	5/25/2011	4.2	330	9,700	1,500	<1.04	--
	5/25/2011 ^D	4.1	520	10,000	2,100	35	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	3.1	--
	11/9/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	2/22/2012	<0.50	<0.50	<0.50	<1.5	<0.96	--
	5/16/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	<1.0	--
	8/9/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--
	10/17/2012	<0.50	<0.50	<0.50	<1.5	11	--
	2/12/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
	5/15/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
	7/30/2013	<0.50	0.7	<0.50	5.3	<1.0	--
	10/22/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
6/3/2014	<0.50	<0.50	<0.50	<1.5	--	--	

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Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-19-8 (Ross Street Well)	11/15/1999	<0.31	<0.38	<0.34	<0.40	<4.1	--
	8/1/2001	0.5	<0.20	<0.20	<0.20	<0.40	--
	6/5/2002	<0.22	<0.18	<0.24	<0.20	<0.40	--
	11/19/2003	<0.20	<0.20	<0.20	<0.60	<0.90	--
	6/17/2004	<0.20	<0.20	<0.20	<0.60	<1.0	--
	8/11/2004	<0.20	<0.20	<0.20	<0.60	<1.0	--
	1/12/2005	<0.20	0.3 J	<0.20	<0.60	<1.0	--
	4/11/2005	<0.20	<0.20	<0.20	<0.60	<1.0	--
	7/27/2005	<0.20	<0.20	<0.20	<0.60	<1.0	--
	10/27/2005	<0.20	<0.20	<0.20	<0.60	<1.0	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.96	<1.0
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.96	<1.0
	2/21/2012	<0.50	<0.50	6.0	1.8	<0.96	<1.0
5/15/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	
MW-19-12 (Ross Street Well)	6/21/2006	<0.20	<0.20	<0.20	<0.60	<1.0	--
	9/12/2006	<0.20	<0.20	<0.20	<0.60	<1.0	--
	11/7/2006	<0.20	<0.20	<0.20	<0.60	<1.0	--
	11/7/2006 ^D	<0.20	<0.20	<0.20	<0.60	<0.90	--
	2/6/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	6/26/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	6/26/2007 ^D	<1.0	<1.0	<5.0	<3.0	<1.0	--
	9/11/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	2/19/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	5/6/2008	<1.0	<1.0	<5.0	<3.0	<1.1	--
	7/22/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	10/28/2008	<0.20	<0.20	<0.20	<0.60	<1.0	--
	1/13/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	4/7/2009	<0.90	<0.80	<0.80	<0.90	<0.90	--
	7/21/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90	--
	2/15/2010	<0.50	<0.50	<0.50	<1.5	<0.96	--
	4/20/2010	<0.50	<0.50	<0.50	<1.5	<0.98	--
	8/24/2010	<0.50	<0.50	<0.50	<1.5	<0.96	--
	12/7/2010	<0.50	<0.50	<0.50	<1.5	<0.96	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	5/24/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	2/21/2012	<0.50	<0.50	<0.50	<1.5	<0.96	<1.0
	5/15/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
8/8/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--	
10/17/2012	<0.50	<0.50	<0.50	<1.5	1.6	--	
2/12/2013	<0.50	<0.50	<0.50	<1.5	1.0	--	
5/14/2013	<0.50	0.61	<0.50	3.0	<1.0	--	
7/30/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	
10/22/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	

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Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-19-13	12/7/2010	6.3	42	1.0	400	<0.95	--
	3/14/2011	2.6	71	260	330	<0.95	<1.0
	5/25/2011	4.7	<0.50	<0.50	49	3.5	--
	8/16/2011	1.8	7.8	0.64	57	<0.95	--
	11/8/2011	1.0	<0.50	<0.50	<1.5	<0.98	--
	2/22/2012	1.8	<0.50	0.89	<1.5	<0.98	--
	5/16/2012 ⁽⁵⁾	2.3	0.62	<0.50	180	2.8	--
	8/9/2012	3.6	16	0.5	83	1.4	--
	10/18/2012	1.4	<0.50	<0.50	<1.5	1.0	--
	2/12/2013	2.8	46	<0.50	160	<1.0	--
	5/15/2013	1.8	6.8	<0.50	150	<1.0	--
	7/30/2013	0.61	<0.50	<0.50	<1.5	<1.0	--
10/23/2013	0.54	<0.50	<0.50	<1.5	<1.0	--	
6/3/2014	0.81	6.4	<0.50	23	--	--	
MW-19-14	12/8/2010	0.65	110	1,800	510	<0.98	--
	12/8/2010 ^D	<0.50	120	2,100	580	<1.0	--
	3/16/2011	<0.50	<0.50	1.4	<1.5	<0.99	<1.0
	3/16/2011 ^D	<0.50	<0.50	<0.50	<1.5	<0.95	--
	5/24/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	8/16/2011	0.56	190	2,400	860	<0.95	--
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	2/21/2012	<0.50	0.87	6.6	3.9	<0.95	--
	5/15/2012 ⁽⁵⁾	<0.50	<0.50	0.9	<1.5	2.2	--
	8/9/2012	<0.50	6.9	<0.50	14	1.2	--
	10/18/2012	<0.50	10	<0.50	<1.5	<1.0	--
	2/12/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
5/14/2013	<0.50	0.56	0.94	2.7	<1.0	--	
7/30/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	
10/23/2013	0.61	<0.50	<0.50	9.1	<1.0	--	
MW-19-15	12/7/2010	<0.50	<0.50	<0.50	<1.5	<0.99	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	5/24/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	2/21/2012	<0.50	<0.50	<0.50	<1.5	1.6	--
	5/15/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	<1.0	--
	8/8/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--
	10/18/2012	<0.50	<0.50	<0.50	<1.5	<1.1	--
	2/12/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
	5/15/2013	<0.50	<0.50	<0.50	1.6	<1.0	--
	7/31/2013	<0.50	1.1	15	3.9	<1.0	--
10/23/2013	<0.50	<0.50	<0.50	<1.5 U	<1.0	--	
MW-19-16	12/7/2010	<0.50	<0.50	<0.50	<1.5	<0.96	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	5/24/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.96	--
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	2/21/2012	<0.50	<0.50	<0.50	<1.5	<0.96	--
	5/15/2012	<0.50	<0.50	<0.50	<1.5	2.7	--
	8/9/2012	<0.50	<0.50	<0.50	<1.5	3.0	--
	10/18/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--
	2/12/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
	5/15/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
	7/30/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
10/23/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	

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Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-19-17 (Ross Street Well)	12/8/2010	<0.50	<0.50	<0.50	<1.5	<0.95	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	5/24/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.98	<1.0
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	2/21/2012	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	5/15/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0
	8/8/2012	<0.50	<0.50	<0.50	<1.5	1.3	--
	10/17/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--
	2/14/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
MW-08	7/23/2008	<1.0	<1.0	<5.0	15	<1.0	--
	10/29/2008	<0.20	<0.20	<0.20	<0.60	2.0 J	--
	1/14/2009	<0.90	<0.80	<0.80	<0.90	8.0	--
	4/8/2009 ⁽³⁾	<0.90	<0.80	<0.80	<0.90	3.0 J	--
	7/21/2009	<0.90	<0.80	<0.80	<0.90	2.0 J	--
	11/11/2009	<0.90	<0.80	<0.80	<0.90	3.0 J	--
	2/15/2010	<0.50	<0.50	<0.50	<1.5	3.9	--
	4/20/2010	<0.50	<0.50	<0.50	<1.5	16	--
	8/24/2010	<0.50	<0.50	<0.50	4.2	4.8	--
	12/7/2010	<0.50	<0.50	<0.50	<1.5	1.7	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	3.5	--
	5/24/2011	<0.50	<0.50	<0.50	<1.5	43	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	1.9	--
	11/8/2011	<0.50	<0.50	<0.50	<1.5	5.8	--
	2/21/2012	<0.50	<0.50	<0.50	<1.5	4.1	--
	5/16/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	6.1	--
	8/7/2012	<0.50	<0.50	<0.50	<1.5	2.1	--
	10/16/2012	<0.50	<0.50	<0.50	<1.5	31	--
	2/13/2013	<0.50	<0.50	<0.50	<1.5	24	--
	5/16/2013	<0.50	<0.50	<0.50	<1.5	9.1	--
8/1/2013	<0.50	<0.50	<0.50	1.7	6.1 U	--	
10/24/2013	<0.50	<0.50	<0.50	<1.5	7.2	--	
3/25/2014	--	--	--	--	34	--	
6/4/2014	--	--	--	--	21	--	
MW-25R	6/21/2006	<0.20	<0.20	<0.20	<0.60	<1.0	--
	6/21/2006 ^D	<0.20	<0.20	<0.20	<0.60	<1.0	--
	9/13/2006	<0.20	<0.20	0.5 J	<0.60	1.0 J	--
	11/7/2006	<0.20	<0.20	<0.20	<0.60	<1.0	--
	2/8/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	6/26/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	6/26/2007 ^D	<1.0	<1.0	<5.0	<3.0	1.6	--
	9/11/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	12/6/2007	<1.0	<1.0	<5.0	<3.0	<1.3	--
	2/19/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	5/6/2008	<1.0	<1.0	<5.0	<3.0	<1.3	--
	7/22/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	10/29/2008	<0.20	<0.20	0.3 J	<0.60	<1.0	--
1/15/2009	<0.90	<0.80	<0.80	<0.90	<0.90	--	

LEGEND

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Bold concentrations are above reporting limits but below criteria.

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Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	1,3-Butadiene	
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-25R (cont.)	4/7/2009 ⁽⁵⁾	<0.90	<0.80	<0.80	<0.90	1.0 J	--
	7/22/2009	<0.90	<0.80	<0.80	<0.90	<0.90	--
	11/11/2009	<0.90	<0.80	<0.80	<0.90	1.0 J	--
	2/15/2010	<0.50	<0.50	<0.50	<1.5	<0.96	--
	4/20/2010	<0.50	<0.50	<0.50	<1.5	<0.98	--
	8/25/2010	<0.50	<0.50	<0.50	<1.5	<0.99	--
	12/9/2010	<0.50	<0.50	<0.50	<1.5	<0.95	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	5/24/2011	<0.50	<0.50	<0.50	<1.5	44	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	1.8	--
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.96	--
	2/22/2012	<0.50	<0.50	<0.50	<1.5	1.3	--
	5/15/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	16	--
	8/7/2012	<0.50	<0.50	<0.50	<1.5	1.5	--
	10/15/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--
	2/13/2013	<0.50	<0.50	<0.50	<1.5	1.4	--
	5/15/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
7/31/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	
10/22/2013	<0.50	<0.50	<0.50	<1.5	5.0	--	
3/25/2014	<0.50	<0.50	<0.50	<1.5	1.1	--	
6/3/2014	<0.50	<0.50	<0.50	<1.5	5.1	--	
MW-27S	6/22/2006	0.6 J	3.7	3.9	14	3.0 J	--
	9/11/2006	<0.20	<0.20	<0.20	<0.60	2.0 J	--
	11/7/2006	<0.20	<0.20	<0.20	<0.60	1.0 J	--
	2/7/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	6/26/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	9/11/2007	<1.0	<1.0	<5.0	<3.0	1.2	--
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.4	--
	2/19/2008	<1.0	<1.0	<5.0	<3.0	<1.2	--
	5/7/2008	<1.0	<1.0	<5.0	<3.0	<1.2	--
	7/23/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	10/30/2008	<0.20	<0.20	<0.20	<0.60	<1.0	--
	1/14/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	4/8/2009	<0.90	<0.80	<0.80	1.0 J	<1.0	--
	7/21/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90	--
	2/14/2010	<0.50	<0.50	<0.50	<1.5	<0.98	--
	4/20/2010	<0.50	<0.50	<0.50	<1.5	<1.0	--
	8/24/2010	<0.50	<0.50	<0.50	<1.5	<0.99	--
	12/8/2010	<0.50	<0.50	<0.50	<1.5	<0.98	--
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	<1.0
	5/25/2011	<0.50	<0.50	<0.50	<1.5	24	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	2.4	--
	11/8/2011	<0.50	6.7	<0.50	23	4.3	--
	12/14/2011	<0.50	<0.50	<0.50	<1.5	<0.98	--
	2/23/2012	<0.50	<0.50	<0.50	<1.5	14	--
	5/17/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	8.1	--
8/9/2012	<0.50	<0.50	<0.50	<1.5	1.0	--	
10/17/2012	<0.50	<0.50	<0.50	<1.5	2.9	--	
2/11/2013	<0.50	<0.50	<0.50	<1.5	<1.1	--	
5/14/2013	<0.50	<0.50	<0.50	<1.5	1.5	--	
8/1/2013	<0.50	<0.50	<0.50	<1.5	1.0 U	--	
10/23/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	
3/25/2014	<0.50	<0.50	<0.50	<1.5	1.2	--	
6/4/2014	<0.50	<0.50	<0.50	<1.5	<1.0	--	

LEGEND

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Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-28S	6/21/2006	1.6 J	560	<1.0	1,400	100	--
	9/13/2006	0.2 J	210	<0.20	450	570	--
	9/13/2006 ^D	0.3 J	220	<0.20	470	550	--
	11/7/2006	<0.20	92	<0.20	180	250	--
	2/7/2007	<1.0	70	<5.0	150	260	--
	2/7/2007 ^D	<1.0	58	<5.0	130	250	--
	6/27/2007	<1.0	30	<5.0	56	28	--
	9/12/2007	<1.0	17	<5.0	42	49	--
	12/6/2007	<1.0	32	<5.0	96	14	--
	2/20/2008	<1.0	14	<5.0	36	39	--
	5/7/2008	<1.0	2.7	<5.0	6.6	160	--
	7/23/2008	<1.0	37	<5.0	93	420	--
	7/23/2008 ^D	<1.0	41	<5.0	100	290	--
	10/29/2008	<0.20	4.3	<0.20	15	300	--
	1/15/2009	<0.90	17	<0.80	64	140	--
	4/8/2009	<0.90	39	<0.80	100	200	--
	7/22/2009	<0.90	18	<0.80	53	180	--
	11/12/2009	<0.90	10	<0.80	67	130	--
	2/16/2010	<0.50	8.9	<0.50	27	65	--
	2/16/2010 ^D	<0.50	8.8	<0.50	27	100	--
	4/21/2010	<0.50	22	<0.50	71	240	--
	8/25/2010	<0.50	5.7	<0.50	12	39	--
	8/25/2010 ^D	<0.50	<0.50	<0.50	<1.5	29	--
	12/8/2010	0.62	18	<0.50	50	92	--
	3/15/2011	<0.50	<0.50	<0.50	6.8	51	--
	3/15/2011 ^D	<0.50	<0.50	<0.50	5.8	52	--
	5/25/2011	<0.50	9.1	<0.50	8.9	170	--
	8/16/2011	<0.50	1.4	0.82	2.7	650	--
	11/9/2011	<0.50	23	<0.50	66	63	--
	11/9/2011 ^D	<0.50	18	<0.50	61	74	--
	2/22/2012	<0.50	39	1.3	150	440	--
	5/16/2012 ⁽⁵⁾	<0.50	33	<0.50	140	88	--
8/8/2012	<0.50	7.4	<0.50	20	740	--	
10/16/2012	<0.50	5.5	<0.50	11	46	--	
2/13/2013	<0.50	35	<0.50	130	94	--	
5/16/2013	<0.50	21	<0.50	76	120	--	
7/31/2013	<0.50	1.1	<0.50	7.4 U	56	--	
10/24/2013	<0.50	<0.50	<0.50	<1.5	64	--	
3/25/2014	--	--	--	--	220	--	
6/4/2014	--	--	--	--	160	--	
MW-28I	6/22/2006	<1.0	480	<1.0	1,300	270	--
	9/13/2006	<0.20	72	0.6 J	520	180	--
	11/7/2006	<0.20	10	<0.20	14	90	--
	2/7/2007	<1.0	<1.0	<5.0	<3.0	76	--
	6/27/2007	<1.0	<1.0	<5.0	<3.0	3.9	--
	9/12/2007	<1.0	<1.0	<5.0	<3.0	21	--
	12/6/2007	<1.0	<1.0	<5.0	<3.0	1.4	--
	2/20/2008	<1.0	<1.0	<5.0	<3.0	31	--
	5/7/2008	<1.0	<1.0	<5.0	<3.0	28	--
	7/23/2008	<1.0	<1.0	<5.0	<3.0	49	--
	10/29/2008	<0.20	<0.20	<0.20	<0.60	110	--
1/15/2009	<0.90	<0.80	<0.80	<0.90	61	--	

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	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-281 (cont.)	1/15/2009 ^D	<0.90	<0.80	<0.80	<0.90	41	--
	4/8/2009 ⁽³⁾	<0.90	<0.80	<0.80	<0.90	240	--
	7/22/2009	<0.90	<0.80	<0.80	<0.90	19	--
	11/12/2009	<0.90	<0.80	<0.80	<0.90	15	--
	11/12/2009 ^D	<0.90	<0.80	<0.80	<0.90	11	--
	2/16/2010	<0.50	<0.50	<0.50	<1.5	12	--
	4/21/2010	<0.50	2.7	<0.50	9.4	26	--
	8/25/2010	<0.50	<0.50	<0.50	<1.5	11	--
	12/8/2010	0.82	<0.50	<0.50	<1.5	25	--
	3/14/2011	<0.50	s	<0.50	<1.5	28	--
	5/25/2011	<0.50	<0.50	<0.50	<1.5	83	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	95	--
	11/8/2011	<0.50	<0.50	<0.50	<1.5	8.3	--
	2/22/2012	<0.50	<0.50	<0.50	<1.5	66	--
	5/16/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	50	--
	8/8/2012	<0.50	<0.50	<0.50	<1.5	27	--
	10/16/2012	<0.50	<0.50	<0.50	<1.5	24	--
	2/13/2013	<0.50	<0.50	<0.50	<1.5	29	--
	5/16/2013	<0.50	<0.50	<0.50	<1.5	8.3	--
	7/31/2013	<0.50	<0.50	<0.50	<1.5	5.6 U	--
10/24/2013	<0.50	<0.50	<0.50	<1.5	12	--	
3/25/2014	--	--	--	--	41	--	
6/4/2014	--	--	--	--	8.3	--	
MW-295	6/22/2006	<0.20	0.2 J	<0.20	0.6 J	1.0 J	--
	9/14/2006	<0.20	<0.20	<0.20	<0.60	1.0 J	--
	11/9/2006	<0.20	<0.20	<0.20	<0.60	31	--
	2/7/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	6/27/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	9/11/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	12/5/2007	<1.0	<1.0	<5.0	<3.0	<1.2	--
	2/19/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	2/19/2008 ^D	<1.0	<1.0	<5.0	<3.0	<1.0	--
	5/7/2008	<1.0	<1.0	<5.0	<3.0	<1.2	--
	7/22/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	10/29/2008	<0.20	<0.20	0.3 J	<0.60	<1.0	--
	10/29/2008 ^D	<0.20	<0.20	0.2 J	<0.60	<0.90	--
	1/15/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	4/7/2009 ⁽³⁾	<0.90	<0.80	<0.80	<0.90	<1.0	--
	7/21/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	11/11/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	2/15/2010	<0.50	<0.50	<0.50	<1.5	<0.95	--
	4/20/2010	<0.50	<0.50	<0.50	<1.5	<1.0	--
	8/24/2010	<0.50	<0.50	<0.50	<1.5	<0.95	--
12/7/2010	<0.50	<0.50	<0.50	<1.5	<0.98	--	
3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--	
5/24/2011	<0.50	<0.50	<0.50	<1.5	45	--	
8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.96	--	
11/8/2011	<0.50	<0.50	<0.50	<1.5	2.9	--	
2/21/2012	<0.50	<0.50	<0.50	<1.5	4.3	--	
5/16/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	9.6	--	
8/7/2012	<0.50	<0.50	<0.50	<1.5	4.9	--	
10/17/2012	<0.50	<0.50	<0.50	<1.5	1.9	--	

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Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - BTEX and DEHP Data

First Semiannual
Monitoring Report 2014

Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	1,3-Butadiene	
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL)⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL⁽⁴⁾	1	700	600	1000	3	--	
MW-295 (cont.)	2/13/2013	<0.50	<0.50	<0.50	<1.5	1	--
	5/16/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--
	7/31/2013	<0.50	<0.50	2.2	3.8	3.4 U	--
	10/24/2013	<0.50	<0.50	<0.50	<1.5 U	<1.0	--
	3/25/2014	--	--	--	--	<1.0	--
	6/4/2014	--	--	--	--	2.6 U	--
MW-305 (abandoned)	6/21/2006	<1.0	1,200	1.3 J	3,900	740	--
	9/13/2006	<4.0	1,200	46	5,100	19,000	--
	11/9/2006	<1.0	540	<1.0	2,600	2,500	--
	2/7/2007	FS	FS	FS	FS	FS	--
	6/26/2007	2.1	300	<25	1,200	13,000	--
	9/12/2007	<1.0	<1.0	<5.0	<3.0	880	--
	9/12/2007 ^D	<1.0	<1.0	<5.0	<3.0	1,700	--
	12/6/2007	1.5	34	110	260	200	--
	2/20/2008	<5.0	110	<25	480	3,800	--
	5/8/2008	<1.0	100	<5.0	460	9.6	--
	7/22/2008	<1.0	14	<5.0	86	80	--
	10/29/2008	<0.20	80	0.2 J	290	180	--
	1/15/2009	FS	FS	FS	FS	FS	--
	4/8/2009	<0.90	74	<0.80	340	1,100	--
	7/22/2009	<0.90	8.0	<0.80	34	550	--
	11/11/2009	<0.90	63	<0.80	140	350	--
	2/15/2010	FS	FS	FS	FS	FS	--
	4/21/2010	<0.50	5.4	<0.50	15	480	--
	4/21/2010 ^D	<0.50	6.0	<0.50	22	460	--
	8/24/2010	<0.50	12	<0.50	19	140	--
12/8/2010	<0.50	16	<0.50	38	180	--	
12/8/2010 ^D	<0.50	15	<0.50	37	250	--	
3/16/2011	<0.50	10	<0.50	39	390	--	
5/24/2011	<0.50	17	<0.50	26	910	--	
8/16/2011	<0.50	2.1	<0.50	<1.5	940	--	
8/16/2011 ^D	<0.50	2.8	<0.50	<1.5	1,100	--	
11/8/2011	<0.50	<0.50	<0.50	<1.5	150	--	
MW-305(R)	2/22/2012	<0.50	<0.50	0.83	<1.5	27	--
	5/16/2012 ^(S)	<0.50	11	<0.50	35	41	--
	5/16/2012 ^D	<0.50	10	<0.50	36	34	--
	8/8/2012	<0.50	<0.50	<0.50	<1.5	7.6	--
	8/8/2012 ^D	<0.50	<0.50	<0.50	<1.5	18	--
	10/17/2012	<0.50	140	<0.50	430	61	--
	2/13/2013	NS	NS	NS	NS	NS	--
	5/16/2013	<0.50	8.6	<0.50	18	17	--
	8/1/2013	<0.50	<0.50	<0.50	<1.5	42 U	--
	8/1/2013 ^D	<0.50	<0.50	<0.50	<1.5	53 U	--
	10/24/2013	<0.50	<0.50	<0.50	<1.5	5.5	--
	10/24/2013 ^D	<0.50	<0.50	<0.50	<1.5	6.5	--
	4/17/2014	--	--	--	--	11	--
6/4/2014	--	--	--	--	4.7 U	--	

LEGEND

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Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-30I	6/21/2006	0.3 J	38	1.4	170	2.0 J	--
	9/13/2006	<0.20	1.5	<0.20	4.9	19	--
	11/8/2006	<0.20	0.2 J	<0.20	<0.60	1.0 J	--
	11/8/2006 ^D	<0.20	0.2 J	<0.20	<0.60	<1.0	--
	2/7/2007	FS	FS	FS	FS	FS	--
	6/26/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	9/12/2007	<1.0	<1.0	<5.0	<3.0	1.3	--
	12/6/2007	<1.0	<1.0	<5.0	<3.0	<1.2	--
	2/19/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	5/7/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	5/7/2008 ^D	<1.0	<1.0	<5.0	<3.0	<1.2	--
	7/22/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	10/29/2008	<0.20	<0.20	<0.20	<0.60	2.0 J	--
	1/15/2009	FS	FS	FS	FS	FS	--
	4/8/2009	<0.90	<0.80	<0.80	<0.90	3.0 J	--
	7/23/2009	<0.90	<0.80	<0.80	<0.90	2.0 J	--
	7/23/2009 ^D	<0.90	<0.80	<0.80	<0.90	3.0 J	--
	11/11/2009	<0.90	<0.80	<0.80	<0.90	1.0 J	--
	2/15/2010	FS	FS	FS	FS	FS	--
	4/21/2010	<0.50	1.9	<0.50	2.0	1.7	--
	8/24/2010	<0.50	<0.50	<0.50	<1.5	1.7	--
	12/7/2010	<0.50	<0.50	<0.50	<1.5	<0.96	--
	3/16/2011	<0.50	<0.50	<0.50	<1.5	2.0	--
	5/25/2011	<0.50	<0.50	<0.50	<1.5	39	--
	5/25/2011 ^D	<0.50	<0.50	<0.50	<1.5	15	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	1.5	--
	11/8/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--
	2/22/2012	<0.50	<0.50	<0.50	<1.5	4.4	--
	2/22/2012 ^D	<0.50	<0.50	<0.50	<1.5	2.1	--
	5/17/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	1.5	--
8/8/2012	<0.50	<0.50	<0.50	<1.5	21	--	
10/17/2012	<0.50	<0.50	<0.50	<1.5	1.1	--	
10/17/2012 ^D	<0.50	<0.50	<0.50	<1.5	1.1	--	
2/13/2013	<0.50	<0.50	<0.50	<1.5	1.3	--	
2/13/2013 ^D	<0.50	<0.50	<0.50	<1.5	<1.0	--	
5/16/2013	<0.50	<0.50	<0.50	<1.5	<1.1	--	
8/1/2013	<0.50	<0.50	<0.50	<1.5	4.3 U	--	
10/24/2013	<0.50	<0.50	<0.50	<1.5	2.5	--	
4/17/2014	--	--	--	--	1.8	--	
6/4/2014	--	--	--	--	1.1 U	--	

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Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit ⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL) ⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA ⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL ⁽⁴⁾	1	700	600	1000	3	--	
MW-30D	6/21/2006	<0.20	<0.20	<0.20	<0.60	3.0 J	--
	9/14/2006	<0.20	<0.20	<0.20	<0.60	9.0 J	--
	11/8/2006	<0.20	<0.20	<0.20	<0.60	<0.90	--
	2/7/2007	FS	FS	FS	FS	FS	--
	6/26/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	9/12/2007	<1.0	<1.0	<5.0	<3.0	<1.0	--
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.1	--
	12/4/2007 ^D	<1.0	<1.0	7.7	<3.0	<1.1	--
	2/19/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	5/7/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	7/22/2008	<1.0	<1.0	<5.0	<3.0	<1.0	--
	10/29/2008	<0.20	<0.20	<0.20	<0.60	<0.90	--
	1/15/2009	FS	FS	FS	FS	FS	--
	4/8/2009	<0.90	<0.80	<0.80	<0.90	<1.0	--
	7/21/2009	<0.90	<0.80	<0.80	<0.90	<0.90	--
	11/11/2009	<0.90	<0.80	<0.80	<0.90	<0.90	--
	2/15/2010	<0.50	<0.50	<0.50	<1.5	<0.99	--
	4/21/2010	<0.50	<0.50	<0.50	<1.5	<0.95	--
	8/24/2010	<0.50	<0.50	<0.50	<1.5	<0.95	--
	12/7/2010	<0.50	<0.50	<0.50	<1.5	<1.0	--
3/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95	--	
5/25/2011	<0.50	<0.50	<0.50	<1.5	6.0	--	
8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.99	--	
11/9/2011	<0.50	<0.50	<0.50	<1.5	6.3	--	
2/22/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--	
5/17/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	1.2	--	
8/8/2012	<0.50	<0.50	<0.50	<1.5	<1.0	--	
10/16/2012	<0.50	<0.50	<0.50	<1.5	2.5	--	
2/13/2013	<0.50	<0.50	<0.50	<1.5	<1.1	--	
5/16/2013	<0.50	<0.50	<0.50	<1.5	<1.0	--	
8/1/2013	<0.50	<0.50	<0.50	<1.5	70 U	--	
10/24/2013	<0.50	<0.50	<0.50	<1.5	2.9 U	--	
4/17/2014	--	--	--	--	<1.0	--	
6/4/2014	--	--	--	--	1.9 U	--	
MW-31S	5/8/2008	<500	5,500	<2,500	27,000	310	--
	7/23/2008	<20	9,000	<100	49,000	16,000	--
	10/30/2008	<10	7,900	<10	40,000	760	--
	1/14/2009	<0.90	4,400	46 J	25,000	3,100	--
	4/9/2009	<9	2,300	<8	9,600	690	--
	7/23/2009	5.0 J	4,500	10 J	22,000	23,000	--
	11/12/2009	<5.0	1,300	5.0 J	7,400	340	--
	2/16/2010	4.4	4,000	11	17,000	1,000	--
	4/22/2010	7.6	8,700	16	40,000	190	--
	8/25/2010	3.6	760	8.4	12,000	440	--
	12/9/2010	1.0	730	2.4	4,100	1,100	--
	3/17/2011	4.3	4,700	14	21,000	330	--
	5/26/2011	3.2	3,900	12	19,000	19,000	--
	8/16/2011	2.3	2,600	9.9	13,000	1,700	--
	11/9/2011	3.6	4,100	12	19,000	39,000	--
2/23/2012	6.0	6,500	15	25,000	2,000	--	
5/15/2012 ⁽⁵⁾	1.4	5,800	<0.50	30,000	7,600	--	

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Solubility Limit⁽⁴⁾		1700000	152000	515000	175000	334	--
Practical Quantitation Limit (PQL)⁽⁴⁾		1	2	1	2	3	--
NJGWQS Class IIA⁽⁴⁾		0.2	700	600	1000	2	--
Higher of NJGWQS and PQL⁽⁴⁾		1	700	600	1000	3	--
MW-315 (cont.)	8/7/2012	3.8	4,800	10	25,000	3,100	--
	10/16/2012	<0.50	550	0.86	3,100	2,300	--
	2/11/2013	2.3	2,900	5.9	14,000	4,500	--
	5/14/2013	1.7	3,400	5.9	18,000	590	--
	7/30/2013	3.5	5,500	12	25,000	5,300	--
	10/22/2013	2.9	5,100	8.7	24,000	2,500	--
	3/25/2014	<0.50	880	1.1	4,100	9,400	--
6/3/2014	3.1	4,200	9.5	19,000	10,000	--	
MW-325	5/8/2008	<200	16,000	<1,000	75,000	370,000	--
	7/23/2008	<50	8,600	<250	43,000	7,900	--
	10/30/2008	1.1 J	1,200	1.7 J	6,900	4,600	--
	1/15/2009	<45	8,900	<40	40,000	12,000	--
	4/8/2009	<18	8,200	<16	50,000	8,600	--
	7/23/2009	<45	7,400	<40	43,000	5,400	--
	11/12/2009	<18	3,800	<16	29,000	2,300	--
	2/16/2010	7.7	7,400	10	36,000	130,000	--
	4/22/2010	6.7	6,200	14	31,000	2,800	--
	8/25/2010	6.9	4,500	4.5	20,000	6,100	--
	12/9/2010	0.93	1,100	0.51	5,900	15,000	--
	3/17/2011	3.3	3,600	0.55	11,000	2,000	--
	5/25/2011	3.4	3,200	1.3	11,000	17,000	--
	8/16/2011	2.1	1,600	0.78	4,600	4,200	--
	11/9/2011	3.7	2,700	2.0	9,600	34,000	--
	2/23/2012	3.2	1,800	1.7	6,600	6,000	--
	5/15/2012 ⁽⁵⁾	2.3	6,600	8.9	39,000	1,400	--
	8/7/2012	5.5	4,400	0.72	17,000	110,000	--
	10/16/2012	0.62	700	<0.50	1,600	7,500	--
	2/11/2013	1.3	970	<0.50	2,000	11,000	--
5/14/2013	1.6	140	1.9	5,200	1,800	--	
7/30/2013	3.3	2,800	1.4	8,700	5,600	--	
10/22/2013	5.2	2,800	<0.50	12,000	14,000	--	
3/25/2014	1.0	1,100	<0.50	2,600	44,000	--	
6/3/2014	4.9	4,200	0.95	13,000	32,000	--	

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Practical Quantitation Limit (PQL) ⁽⁴⁾		1	2	1	2	3	--
NJGWQS Class IIA ⁽⁴⁾		0.2	700	600	1000	2	--
Higher of NJGWQS and PQL ⁽⁴⁾		1	700	600	1000	3	--
MW-335	5/8/2008	4.0	6.6	<5.0	27	16	--
	7/23/2008	1.8	<1.0	<5.0	3.3	21	--
	10/30/2008	0.4 J	0.6 J	0.3 J	<3.0	5,500	--
	1/15/2009	<0.90	<0.80	<0.80	<0.90	3,400	--
	4/9/2009	<0.90	<0.80	<0.80	<0.90	1,100	--
	7/23/2009	<0.90	<0.80	<0.80	2.0 J	81,000	--
	11/12/2009	<0.90	<0.80	<0.80	2.0 J	790	--
	2/16/2010	<0.50	0.51	<0.50	5.1	21,000	--
	4/22/2010	<0.50	1.5	<0.50	10	910	--
	8/25/2010	<0.50	<0.50	<0.50	5.9	560	--
	12/9/2010	<0.50	<0.50	<0.50	<1.5	9,700	--
	3/17/2011	<0.50	2.5	<0.50	14	280	--
	5/26/2011	<0.50	7.5	<0.50	37	2,300	--
	8/16/2011	<0.50	<0.50	<0.50	<1.5	2,500	--
	11/9/2011	<0.50	51	<0.50	310	1,800	--
	2/23/2012	<0.50	5.6	<0.50	21	990	--
	5/15/2012 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	700	--
	8/7/2012	<0.50	0.9	<0.50	7.2	1,700	--
10/16/2012	<0.50	<0.50	18	<1.5	280	--	
2/11/2013	<0.50	<0.50	<0.50	<1.5	1,200	--	
5/14/2013	<0.50	<0.50	<0.50	<1.5	110	--	
7/30/2013	<0.50	<0.50	<0.50	<1.5	3,500	--	
10/22/2013	<0.50	<0.50	<0.50	<1.5	170	--	
3/26/2014	<0.50	<0.50	<0.50	<1.5	6,900	--	
6/3/2014	<0.50	1.1	9.3	5.1	5,300	--	
MW-345	5/6/2008	1.3	230	<5.0	1,200	3.0	--
	7/23/2008	<20	470	<100	2,300	1.6	--
	10/30/2008	<0.20	2.0	<0.20	180	7.0	--
	1/15/2009	<9	2,700	16 J	13,000	7.0	--
	4/8/2009	<9	3,600	18 J	18,000	5.0 J	--
	7/23/2009	<2.0	1,300	5.0 J	6,700	9.0	--
	11/12/2009	<0.90	440	<0.80	1,000	4.0 J	--
	2/16/2010	1.5	680	2.2	2,300	13	--
	4/22/2010	5.6	3,400	44	14,000	8.1	--
	8/25/2010	4.7	240	13	1,200	22	--
	12/9/2010	<0.50	4.3	<0.50	6.2	8.0	--
	3/17/2011	<0.50	78	<0.50	280	7.7	--
	5/26/2011	0.68	380	2.0	1,100	72	--
	8/16/2011	<0.50	19	<0.50	12	35	--
	11/9/2011	<0.50	67	<0.50	70	470	--
	2/23/2012	<0.50	68	<0.50	100	2.9	--
	5/15/2012 ⁽⁵⁾	<0.50	43	<0.50	78	8.9	--
	8/7/2012	2.4	1,000	<0.50	2,500	29	--
	10/16/2012	<0.50	0.88	<0.50	51	4.5	--
	2/11/2013	<0.50	3.6	<0.50	7.5	32	--
5/14/2013	<0.50	21	<0.50	95	1.9	--	
7/30/2013	<0.50	0.62	<0.50	2.1	14 U	--	
10/22/2013	1.5	45,000	<0.50	100,000	35	--	
3/25/2014	<0.50	0.56	<0.50	<1.5	190	--	
3/25/2014 ^(D)	<0.50	<0.50	<0.50	<1.5	500	--	
6/3/2014	1.1	430	<0.50	1,200	14	--	

LEGEND

ug/L = micrograms per liter

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U: Analyte was detected in a method blank.

PQL: Practical Quantitation Limit

Bold concentrations are above reporting limits but below criteria.

Concentration exceeds NJGWQS

FS= Well frozen.

NS = Not Sampled

NMW = Not Measured due to insufficient purge volume.

D = Duplicate sample

L = Lower Grab Sample

U = Upper Grab Sample

TABLE 2
 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Groundwater Monitoring - BTEX and DEHP Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)	1,3-Butadiene	
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
Solubility Limit⁽⁴⁾	1700000	152000	515000	175000	334	--	
Practical Quantitation Limit (PQL)⁽⁴⁾	1	2	1	2	3	--	
NJGWQS Class IIA⁽⁴⁾	0.2	700	600	1000	2	--	
Higher of NJGWQS and PQL⁽⁴⁾	1	700	600	1000	3	--	
MW-35S	5/6/2008	1.3	230	<5.0	1,200	490	--
	7/23/2008	16	12,000	260	67,000	530	--
	10/30/2008	9.6 J	8,800	34	57,000	460	--
	1/15/2009	<18	12,000	36 J	88,000	3,500	--
	4/8/2009	<18	13,000	40 J	100,000	1,800	--
	7/23/2009	<18	14,000	36 J	92,000	20,000	--
	11/12/2009	<45	8,900	<40	69,000	3,000	--
	2/16/2010	<10	9,800	30	59,000	660	--
	4/22/2010	13	14,000	35	79,000	540	--
	8/16/2011	2.1	1,600	0.78	4,600	4,200	--
	12/9/2010	7.5	9,200	29	51,000	3,400	--
	3/17/2011	5.8	16,000	30	83,000	570	--
	5/26/2011	2.3	10,000	14	57,000	15,000	--
	8/16/2011	3.5	9,700	17	54,000	3,000	--
	11/9/2011	2.5	8,200	12	28,000	2,800	--
	2/23/2012	2.2	8,800	9.2	51,000	970	--
	5/15/2012 ⁽⁵⁾	86	8,500	580	46,000	220	--
	8/7/2012	3.1	5,300	10	31,000	2,700	--
	10/16/2012	2.9	5,000	11	31,000	1,000	--
	2/11/2013	6.7	7,500	15	45,000	4,200	--
5/14/2013	5.5	81	14	500	300	--	
7/30/2013	5.0	9,200	13	52,000	7,800	--	
10/22/2013	5.8	7,100	14	51,000	1,400	--	
3/25/2014	6.5	8,900	12	52,000	13,000	--	
6/3/2014	1.5	8,000	4.9	44,000	6,000	--	
6/3/2014 ^D	1.5	7,300	5.4	38,000	3,000	--	

LEGEND

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 U: Analyte was detected in a method blank.
 PQL: Practical Quantitation Limit
Bold concentrations are above reporting limits but below criteria.

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NOTES

- (1) Low flow sampling initiated 1st quarter 2002
- (2) GEI series wells are piezometers installed by Weston
- (3) Recovery of initial DEHP analysis was above QC limits in the LCS during 2Q09 at MW-29S. Sample was re-extracted and DEHP was again above the QC limits in the LCS/LCSD. However, DEHP was not detected in the re-analysis of the sample. The data reported here is from the re-analysis of the sample.
- (4) New Jersey Department of Environmental Protection Ground Water Quality Standards (NJGWQS) from NJAC 7:9C GWQS last amended July 22, 2010.
- (5) Reanalysis for DEHP. DEHP was detected in a field blank during 2Q12, affecting samples for MW-19R, MW-19-5R, MW-19-6R, MW-19-13, MW-19-14, MW-19-16, MW-25(R), MW-27S, and MW-29S.

TABLE 3
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Analytical Data

First Semiannual
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Analytical Parameters		Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
Units		cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	10	3	NCS	250	NCS	0.005
MW-19-R	12/8/2010	7,200	22	880	<0.04	0.13	0.086	70	280	<0.0030
	3/14/2011	290	<4.0	1,000	3.5	0.044	<0.011	81	<1.0	<0.0030
	5/24/2011	31,000	6.0	1,200	1.5	0.06	<0.011	83	36	<0.0030
	8/16/2011	180	8.0	780	0.63	0.05	<0.011	35	16	0.049
	11/9/2011	250	<4.0	690	0.28	0.043	<0.011	61	2.2	<0.0030
	2/22/2012	38	11	720	<0.22	<0.010	0.084	82	1.7	<0.0030
	5/16/2012	160	7.0	600	0.37	0.02	0.10	48	61	<0.0030
	8/9/2012	26	6.0	800	0.24	0.032	<0.054	45	460	<0.0030
	10/18/2012	34	11	680	<0.10	0.069	0.06	26	640	<0.0030
	2/12/2013	92	<4.0	710	0.35	<0.010	<0.050	75	<1.0	<0.0030
MW-19-5R	5/15/2013	31	5.0	990	0.89	<0.010	0.077	22	19	<0.0030
	7/31/2013	640	15	850	<0.10	<0.010	<0.050	74	2.1	<0.0030
	10/23/2013	52	6.0	820	0.13	0.034	<0.050	45	2,400	<0.0030
	12/8/2010	4,800	42	600	<0.04	0.37	0.18	14	4,600	<0.0030
	3/16/2011	1,100	9.0	630	0.70	0.32	0.071	82	5,000	<0.0030
	5/25/2011	280	27	840	0.36	0.16	0.12	58	3,700	<0.0030
	8/16/2011	2,100	36	770	<0.04	0.37	0.25	15	5,700	<0.0030
	8/16/2011 ^D	3,600	34	780	<0.04	0.44	0.23	18	6,300	0.0032
	11/9/2011	250	<4.0	690	<0.04	0.16	0.19	2.9	6,000	<0.0030
	11/9/2011 ^D	12	23	560	<0.04	0.21	0.25	2.9	5,900	<0.0030
	2/22/2012	3.0	36	580	<0.22	0.16	0.28	<2.5	2,000	<0.0030
	5/16/2012	200	36	640	<0.22	0.20	0.40	3.9	7,500	<0.0030
	5/16/2012 ^D	160	33	630	<0.22	0.20	0.33	3.2	8,300	<0.0030
	8/9/2012	1,200	37	560	0.24	0.20	0.27	<2.5	6,900	<0.0030
	8/9/2012 ^D	56	39	590	<0.22	0.21	0.26	<2.5	8,100	<0.0030
	10/18/2012	160	42	570	<0.10	0.43	0.36	<2.5	9,700	<0.0030
	10/18/2012 ^D	240	41	590	<0.10	0.41	0.34	<2.5	12,000	<0.0030
2/14/2013	680	49	530	<0.10	0.41	0.25	<2.5	11,000	<0.0030	
2/14/2013 ^D	1,000	46	520	<0.10	0.36	0.23	<2.5	7,400	<0.0030	
5/15/2013	12	120	380	<0.10	0.23	0.31	<2.5	7,200	<0.0030	
7/31/2013	100 J	26 J	460	<0.10	0.43	0.23	<2.5	12,000	<0.0030	
7/31/2013 ^D	53 J	38 J	550	<0.10	0.41	0.27	<2.5	11,000	<0.0030	
10/23/2013	NA-Interference	52 J	700	<0.10 R	0.88 J	0.33 J	9.5 J	39,000	<0.0030	
10/23/2013 ^D	340,000	22 J	660	<0.10 R	0.49 J	0.25 J	6.0 J	44,000	<0.0030	
6/3/2014	32	17	820	<0.10	0.21	0.095	53	62,000	<0.0030	
MW-19-6R	12/8/2010	46,000	9.0	620	1.5	0.012	<0.011	39	7.6	<0.0030
	3/14/2011	260	8.0	1,200	0.69	0.028	<0.011	38	60	<0.0030
	5/25/2011	980	5.0	700	0.76	0.033	<0.011	34	3.8	<0.0030
	8/16/2011	450	<4.0	740	1.3	0.018	<0.011	38	32	<0.0030
	11/9/2011	260	6.0	450	0.74	0.039	0.31	30	750	<0.0030
	2/22/2012	150	9.0	320	0.67	0.04	<0.050	34	2,900	<0.0030
	5/16/2012	130	<4.0	760	1.6	<0.010	0.079	46	680	<0.0030
	8/9/2012	260	<4.0	760	1.3	0.043	<0.054	33	3,100	<0.0030
	10/17/2012	860	12	590	1.1	0.04	<0.050	41	1,500	<0.0030
	2/12/2013	400	<4.0	810	1.8	0.036	0.07	27	2,200	<0.0030
5/14/2013	140	4.0	1,900	1.1	0.057	0.085	24	2,900	<0.0030	
7/30/2013	480	<4.0	560	0.40	0.086	<0.050	31	3,400	<0.0030	
10/23/2013	400	10	970	1.4	0.041	<0.050	37	6,700	<0.0030	
MW-19-7R	12/8/2010	2,800	10	560	2.1	0.20	0.23	35	35	<0.0030
	3/14/2011	43	10	1,300	<0.04	0.28	0.26	16	3,300	<0.0030
	5/25/2011	110	20	990	1.9	0.17	0.29	11	22	<0.0030
	5/25/2011 ^D	180	21	990	1.9	0.19	0.29	10	1.0	<0.0030
	8/16/2011	150	<4.0	670	3.0	0.14	0.31	36	1.1	<0.0030

LEGEND

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Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Analytical Data

First Semiannual
Monitoring Report 2014

Analytical Parameters	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead	
Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-19-7R (cont.)	11/9/2011	190	6.0	450	0.74	0.039	0.31	30	750	<0.0030
	2/22/2012	18	7.0	740	0.31	0.09	0.18	14	170	<0.0030
	5/16/2012	42	8.0	520	0.73	0.11	0.21	15	61	<0.0030
	8/9/2012	220	5.0	380	0.32	0.068	0.18	10	190	<0.0030
	10/17/2012	32	4.0	380	1.2	0.16	0.15	18	710	<0.0030
	10/17/2012	32	4.0	380	1.2	0.16	0.15	18	710	<0.0030
	2/12/2013	30	6.0	1,700	1.2	0.17	0.11	20	170	<0.0030
	5/15/2013	8.5	7.0	820	0.84	0.093	0.14	17	150	<0.0030
	7/30/2013	57	<4.0	750	0.17	0.087	0.11	21	110	<0.0030
	10/22/2013	15	<4.0	320	0.30	0.051	0.26	12	130 J	<0.0030
MW19-12 (Ross Street Well)	6/3/2014	120	<4.0	1,200	1.7	0.018	<0.050	27	120	<0.0030
	6/21/2006	4,000	11.2 J	548	0.048 J	<0.005	<0.011	15.1	4.8 J	<0.0030
	9/12/2006	170	6.4 J	822	0.36	<0.005	<0.011	22.9	170	<0.0030
	11/7/2006	2.0	4.4 J	716	0.22	<0.005	<0.011	21.3	130	<0.0030
	11/7/2006 ^D	2.0	<4.0	718	0.17	<0.005	<0.011	21.8	130	<0.0030
	2/6/2007	4.0	5.5	400	0.56	0.12	<0.011	20	<10	<0.0030
	6/26/2007	55	<4.0	240	0.93	<0.005	<0.011	13	<10	<0.0030
	6/26/2007 ^D	8.0	<4.0	270	0.93	<0.005	<0.011	13	<10	<0.0030
	9/11/2007	73	<4.0	290	0.89	<0.005	<0.011	13	<10	<0.0030
	12/4/2007	FS	3.0	260	0.90	<0.005	<0.011	11	<10	<0.0030
	2/19/2008	9.0	<4.0	160	0.84	<0.005	<0.011	5.7	<10	<0.0030
	5/6/2008	<1.0	1.1	220	1.0	<0.005	<0.011	10	<10	<0.0030
	7/22/2008	2.0	1.7	220	0.72	<0.005	<0.011	8.1	<10	<0.0030
	10/28/2008	7.0	<4.0	269	0.79	<0.005	<0.011	16.6	<10	<0.0030
	1/13/2009	4.0	<4.0	170	1.1	<0.005	<0.011	18.3	<10	<0.0030
	4/7/2009	320	5.2 J	334	0.94	<0.005	<0.011	18.5	<5	<0.0030
	7/21/2009	18	<4.0	261	0.90	6.2	<0.011	13.3	<5	<0.0030
	11/10/2009	<1.0	<4.0	263	0.81	<0.005	<0.011	15.3	<5	<0.0030
	12/7/2010	<1.0	<4.0	280	0.78	<0.005	0.057	15	<1.0	<0.0030
	3/14/2011	4.0	14	280	1.0	0.028	<0.011	11	<1.0	<0.0030
	5/24/2011	58	<4.0	250	1.1	0.032	<0.011	9.6	<1.0	<0.0030
	8/16/2011	28	<4.0	400	1.2	0.013	<0.011	16	<1.0	<0.0030
	11/8/2011	100	<4.0	220	1.3	0.05	<0.011	12	2.3	<0.0030
	2/21/2012	3.0	<4.0	230	1.0	<0.010	<0.050	11	1.4	<0.0030
	5/15/2012	710	<4.0	230	1.1	0.015	0.099	11	<1.0	<0.0030
	8/8/2012	96	<4.0	190	0.95	<0.010	<0.054	9.9	<1.0	<0.0030
	10/17/2012	20	<4.0	220	0.97	<0.010	<0.050	11	<1.0	<0.0030
	2/12/2013	3.0	<4.0	190	0.99	<0.010	0.079	13	<1.0	<0.0030
	5/14/2013	8.0	8.0	210	0.88	<0.010	0.13	10	1.6	<0.0030
	7/30/2013	80	<4.0	320	0.72	<0.010	<0.050	13	3.9	<0.0030
10/22/2013	1.0	<4.0	210	0.95	<0.010	<0.050	8.3	1.1 U	<0.0030	
MW19-13	12/7/2010	5,600	110	560	<0.04	0.33	0.19	26	9,600	<0.0030
	3/14/2011	9,000	130	470	3.5	0.059	0.17	66	2,000	<0.0030
	5/25/2011	500	79	460	<0.04	0.17	0.13	44	4,300	<0.0030
	8/16/2011	100	28	590	0.22	0.24	0.18	14	4,500	0.003
	11/8/2011	32	17	630	<0.04	0.16	0.078	38	1,500	<0.0030
	2/22/2012	35	36	470	<0.22	0.17	0.16	24	3,300	<0.0030
	5/16/2012	14	47	510	0.27	0.26	0.27	19	5,900	<0.0030
	8/9/2012	6.0	53	470	<0.22	0.31	0.23	13	7,400	<0.0030
	10/18/2012	2.5	52	460	<0.10	0.46	0.25	10	8,300	<0.0030
	2/12/2013	16	49	390	<0.10	0.29	0.26	17	4,300	<0.0030
	5/15/2013	220	80	220	<0.10	0.27	0.25	18	3,400	<0.0030
	7/30/2013	320	79	410	<0.10	0.22	0.23	53	2,700	<0.0030
	10/23/2013	2.0	60	500	0.11	0.32	0.48	6.9	18,000	<0.0030
	6/3/2014	4.5	<13	510	<0.10	0.17	<0.050	28	20,000	<0.0030

LEGEND

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Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW19-14	12/8/2010	31,000	24	870	0.32	0.16	<0.011	65	95	<0.0030
	12/8/2010 ^D	27,000	24	970	0.36	0.014	<0.011	67	37	<0.0030
	3/16/2011	320	<4.0	940	3.5	0.037	<0.011	93	<1.0	<0.0030
	3/16/2011 ^D	340	<4.0	920	3.4	0.042	<0.011	93	<1.0	<0.0030
	5/24/2011	660	9.0	1,200	2.1	0.053	<0.011	120	9.9	<0.0030
	8/16/2011	1,300	15	1,000	0.40	0.061	0.087	83	85	<0.0030
	11/8/2011	73	<4.0	680	<0.04	0.039	<0.011	77	2.4	<0.0030
	2/21/2012	44	14	690	<0.22	<0.010	<0.050	81	2.1	<0.0030
	5/15/2012	12,000	5.0	730	0.47	0.037	0.19	80	9.1	<0.0030
	8/9/2012	640	22	800	<0.22	0.012	0.066	57	66	<0.0030
	10/18/2012	100	8.0	690	<0.10	<0.010	<0.050	56	340	<0.0030
	2/12/2013	170	5.0	610	0.44	<0.010	0.12	88	7.7	<0.0030
5/14/2013	22	5.0	740	0.28	<0.010	0.066	72	120	<0.0030	
7/30/2013	180	7.0	900	<0.10	<0.010	<0.050	84	13	<0.0030	
10/23/2013	480	13	860	<0.10	0.076	<0.050	32	5,300	<0.0030	
MW19-15	12/7/2010	88,000	21	510	0.55	0.13	<0.011	34	6.4	<0.0030
	3/14/2011	2,200	7.0	1,400	3.4	0.015	<0.011	54	<1.0	<0.0030
	5/24/2011	920	7.0	1,000	1.3	0.18	<0.011	90	7.6	<0.0030
	8/16/2011	3,800	7.0	750	0.34	0.28	<0.011	24	12	<0.0030
	11/8/2011	22,000	5.0	620	0.27	0.23	<0.011	31	6.7	<0.0030
	2/21/2012	600	19	480	0.32	0.14	0.092	29	4.0	<0.0030
	5/15/2012	350	<4.0	450	0.32	0.22	0.08	31	10	<0.0030
	8/8/2012	150	<4.0	460	0.26	0.15	<0.054	28	7.8	<0.0030
	10/18/2012	160	<4.0	460	0.32	0.27	<0.050	32	18	<0.0030
	2/12/2013	110	<4.0	440	0.35	0.14	0.062	28	15	<0.0030
	5/15/2013	460	27	540	0.20	0.18	0.13	23	4.2	<0.0030
	7/31/2013	150	<4.0	650	<0.10	0.068	<0.050	26	5.3	<0.0030
10/23/2013	18	<4.0	440	<0.10	0.25	<0.050	25	220	<0.0030	
MW19-16	12/7/2010	2,100	9.0	980	0.70	0.016	<0.011	87	<1.0	<0.0030
	3/14/2011	740	<4.0	950	4.6	0.012	<0.011	100	<1.0	<0.0030
	5/24/2011	1,000	9.0	700	<0.04	0.041	<0.011	27	1.2	<0.0030
	8/16/2011	44,000	5.0	1,100	0.64	0.03	<0.011	81	2.5	<0.0030
	11/8/2011	110	7.0	810	0.68	0.034	<0.011	110	2.6	<0.0030
	2/21/2012	41	6.0	800	0.40	0.01	<0.050	95	14	<0.0030
	5/15/2012	12,000	5.0	760	0.41	<0.010	0.083	82	3.2	<0.0030
	8/9/2012	2,700	180	880	0.25	0.022	0.40	79	<1.0	<0.0030
	10/18/2012	70	12	810	0.36	<0.010	0.075	83	2.2	<0.0030
	2/12/2013	290	26	620	0.74	<0.010	0.43	94	2.2	<0.0030
	5/15/2013	1,600	210	470	0.49	0.07	0.50	82	<1.0	<0.0030
	7/30/2013	1,000	18	790	<0.10	<0.010	<0.050	88	2.0	<0.0030
10/23/2013	22	16	550	0.46	<0.010	<0.050	63	200	<0.0030	
MW19-17 (Ross Street Well)	12/8/2010	130	9.0	380	<0.04	0.73	0.13	4.8	980	<0.0030
	3/14/2011	64	14	1,300	<0.04	0.91	0.092	13	33	<0.0030
	5/24/2011	180	5.0	970	0.27	0.31	<0.011	34	5.0	<0.0030
	8/16/2011	150	25	430	0.44	0.99	0.33	3.8	1,400	<0.0030
	11/8/2011	18	<4.0	460	0.44	0.26	0.061	17	94	<0.0030
	2/21/2012	6.5	14	270	0.34	0.67	0.25	3.2	840	<0.0030
	5/15/2012	14	4.0	240	<0.22	1.0	0.40	<2.5	590	<0.0030
	8/8/2012	30	5.0	260	<0.22	0.55	0.40	<2.5	360	<0.0030
	10/17/2012	130	31	250	<0.10	1.1	0.52	<2.5	1,700	<0.0030
	2/14/2013	55	19	380	<0.10	0.82	0.28	3.2	1,500	<0.0030
	5/14/2013	7.0	16	270	<0.10	0.96	0.40	<2.5	620	<0.0030
	7/30/2013	33	16	360	<0.10	0.92	0.38	<2.5	24	<0.0030
10/23/2013	6.0	30	310	<0.10	1.2	0.33	<2.5	3,300	<0.0030	

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Analytical Parameters	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead	
Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-8	7/23/2008	<1.0	66	300	<0.04	0.68	0.40	<1.5	3,000	<0.0030
	10/29/2008	5,200	33.6	94.5	<0.04	0.35 J	<0.011	1.9 J	1,800	<0.0030
	1/14/2009	51	56.8	270	<0.04	0.64	0.16	<1.5	2,600	<0.0030
	4/8/2009 ⁽⁵⁾	450	28	174	<0.04	<0.005	<0.011	<1.5	6,100	<0.0030
	7/21/2009	75	40	407	<0.04	<0.005	0.13	2.5 J	2,400	<0.0030
	11/11/2009	84	42.5	191	<0.04	0.53 J	<0.011	<1.5	5,600	<0.0030
	2/15/2010	46	62	280	0.35	0.44	0.24	<1.5	1,500	<0.0030
	4/20/2010	240	36	<10	<0.04	0.24	0.24	<1.5	140	<0.0030
	8/24/2010	100	70	490	<0.04	0.61	0.29	7.7	4,900	<0.0030
	12/7/2010	44	58	200	<0.04	0.27	0.15	<1.5	1,800	<0.0030
	3/14/2011	57	31	500	0.089	0.35	0.18	<1.5	2,000	<0.0030
	5/24/2011	890	34	520	<0.04	0.36	0.25	<1.5	290	<0.0030
	8/16/2011	300	61	450	0.25	0.65	0.052	<1.5	3,100	<0.0030
	11/8/2011	140	29	250	<0.04	0.38	0.17	<1.5	1.3	<0.0030
	2/21/2012	360	63	250	<0.22	0.26	0.52	<2.5	490	<0.0030
	5/16/2012	1,300	90	240	<0.22	0.51	0.26	<2.5	5,300	<0.0030
	8/7/2012	450	50	190	<0.22	0.60	0.094	<2.5	2,800	<0.0030
	10/16/2012	140	60	190	<0.10	0.76	0.16	<2.5	5,200	<0.0030
	2/13/2013	200	54	150	<0.10	0.59	0.12	<2.5	590	<0.0030
	5/16/2013	40	14	180	<0.10	0.54	0.27	<2.5	980	<0.0030
8/1/2013	1,100	56	550	<0.10 R	0.40	0.19	<2.5	400	<0.0030	
10/24/2013	14	72	250	<0.10	0.66	0.094	<2.5	33,000	<0.0030	
6/4/2014	320	30	440	<0.10	0.26	0.21	<2.5	2,800	<0.0030	
MW-25R	6/21/2006	1,100	18.8	340	<0.04	0.24 J	<0.011	2.9 J	140	<0.0030
	9/13/2006	> 5,700	279	329	<0.04	0.24 J	0.14	3.3 J	30	<0.0030
	11/7/2006	1,000	16.8	331	<0.04	<0.005	<0.011	6.2	25	<0.0030
	2/8/2007	240	49	300	<0.04	0.12	<0.011	<1.5	29	<0.0030
	6/26/2007	> 5,700	100	340	<0.04	0.15	<0.011	5.9	33	<0.0030
	6/26/2007 ^D	> 5,700	100	350	<0.04	0.11	<0.011	6.4	32	<0.0030
	9/11/2007	> 5,700	10	260	<0.04	<0.005	<0.011	14	<1.0	<0.0030
	12/6/2007	FS	490	380	<0.04	0.41	0.43	10	<1.0	<0.0030
	2/19/2008	> 5,700	140	360	<0.04	0.13	0.17	5.4	55	<0.0030
	5/6/2008	> 5,700	200	330	<0.04	0.15	0.23	<1.5	130	<0.0030
	7/22/2008	<1.0	68	380	<0.04	0.14	<0.011	<1.5	12	<0.0030
	10/29/2008	> 5,700	<4.0	243	<0.04	<0.005	<0.011	16	3.5 J	<0.0030
	1/15/2009	1,500	36.8	344	<0.04	<0.005	<0.011	36.5	57	<0.0030
	4/7/2009 ⁽⁵⁾	> 5,700	98.8	362	<0.04	<0.005	<0.011	9.4	7.6 J	<0.0030
	7/22/2009	2,100	32.4	412	<0.04	<0.005	<0.011	8.5	100	<0.0030
	11/11/2009	1,600	160	198	<0.04	0.42 J	<0.011	12	30	<0.0030
	2/15/2010	580	95	430	0.35	0.18	0.14	6.9	41	<0.0030
	4/20/2010	1,700	160	<10	<0.04	0.068	0.20	1.4	36	<0.0030
	8/25/2010	3,800	65	650	<0.04	0.11	<0.011	30	1.5	<0.0030
	12/9/2010	920	22	350	<0.04	0.099	<0.011	13	8.5	<0.0030
	3/14/2011	6,400	23	420	0.09	0.16	<0.011	15	36	<0.0030
	5/24/2011	28,000	550	410	<0.04	0.22	0.57	<1.5	93	<0.0030
	8/16/2011	> 30,000	1,400	330	0.24	0.16	<0.011	4.8	19	0.10
	11/8/2011	9,800	70	300	<0.04	0.12	0.069	<1.5	25	<0.0030
	2/22/2012	1,800	60	350	<0.22	0.11	0.19	<2.5	270	<0.0030
	5/15/2012	23,000	34	300	<0.22	0.057	0.23	3.1	22	<0.0030
	8/7/2012	1,100	33	310	<0.22	0.14	0.078	3.0	33	<0.0030
	10/15/2012	2,800	50	330	<0.10	0.11	0.11	5.0	39	<0.0030
	2/13/2013	4,500	23	330	<0.10	0.14	0.071	9.3	33	<0.0030
	5/15/2013	750	93	250	<0.10	0.17	0.15	5.7	120	<0.0030
7/31/2013	960	37	320	<0.10	0.19	0.059	<2.5	110	<0.0030	
10/22/2013	550	7.0	320	<0.10	0.14	<0.050	3.5	77	<0.0030	
6/3/2014	550	<16	440	<0.10	0.19	0.097	3.7	68	<0.0030	

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Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-275	6/22/2006	NR	5,180	630	<0.04	0.26 J	4.8	43.3	20	<0.0030
	9/11/2006	> 5,700	3,850	798	<0.04	<0.005	1.4	108	3.7 J	<0.0030
	11/7/2006	> 5,700	166	753	0.16	<0.005	0.82	116	2.3 J	<0.0030
	2/7/2007	> 5,700	580	650	<0.04	<0.005	0.19	91	<10	<0.0030
	6/26/2007	> 5,700	48	640	<0.04	<0.005	3.5	97	<10	<0.0030
	9/11/2007	270	150	630	<0.04	<0.005	0.12	84	<10	<0.0030
	12/4/2007	FS	260	620	0.16	0.45	<0.011	87	22	<0.0030
	2/19/2008	> 5,700	850	530	0.65	<0.005	0.74	78	<10	<0.0030
	5/7/2008	> 5,700	770	490	0.19	<0.005	0.91	67	<10	<0.0030
	7/23/2008	560	1,400	620	<0.04	0.14	17	61	11	<0.0030
	10/30/2008	390	66.4	571	0.20	<0.005	0.085 J	68.8	<10	<0.0030
	1/14/2009	190	1,200	517	0.55	<0.005	0.27	62.5	<10	0.0283
	4/8/2009	81	253	454	0.96	<0.005	<0.011	52.6	<5	<0.0030
	7/21/2009	8.0	684	482	0.38	<0.005	<0.011	43.9	<5	<0.0030
	11/10/2009	23	300	721	0.50	<0.005	<0.011	47.9	<5	<0.0030
	2/14/2010	18	64	600	1.3	0.10	0.089	54	<1.0	<0.0030
	4/20/2010	30	32	400	1.1	<0.005	<0.011	49	<1.0	<0.0030
	8/24/2010	70	28	1,100	0.29	<0.005	0.094	42	<1.0	<0.0030
	12/8/2010	12	7.0	680	1.1	<0.005	<0.011	49	<1.0	<0.0030
	3/14/2011	2,000	14	500	2.7	0.032	<0.011	38	<1.0	<0.0030
	5/25/2011	3,500	47	500	2.3	0.036	0.083	36	3.2	<0.0030
	8/16/2011	60	41	570	1.4	<0.005	<0.011	35	<1.0	<0.0030
	11/8/2011	2,800	37	560	0.86	0.045	0.065	31	<1.0	<0.0030
	2/23/2012	190	<4.0	540	0.55	<0.010	<0.050	35	<1.0	<0.0030
	5/17/2012	88	80	600	0.56	0.021	<0.050	35	<1.0	<0.0030
	8/9/2012	110	20	560	0.98	<0.010	<0.054	39	1.8	<0.0030
10/17/2012	320	9.0	600	0.85	<0.010	<0.050	45	2.4	<0.0030	
2/11/2013	280	22	430	2.0	<0.010	<0.050	36	<1.0	<0.0030	
5/14/2013	11	28	380	1.4	<0.010	0.081	37	3.0	<0.0030	
8/1/2013	120	130	470	<0.10 R	0.079	0.34	<2.5	6.8	<0.0030	
10/23/2013	100	150	620	0.52	<0.010	<0.050	36	240	<0.0030	
6/4/2014	800	47	530	2.3	<0.010	0.072	38	2.9	<0.0030	

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Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-28S	6/21/2006	6.0	35.2	350	<0.04	0.35 J	0.25	2.6 J	3,100	<0.0030
	9/13/2006	1,300	22.4	460	<0.04	0.26 J	0.37	<1.5	3,200	<0.0030
	9/13/2006 ^D	1,500	21.6	468	<0.04	<0.005	0.37	1.7J	3,100	<0.0030
	11/7/2006	1.0	24.8	347	<0.04	<0.005	0.43	2.0 J	4,400	<0.0030
	2/7/2007	460	180	350	<0.04	<0.005	0.42	<1.5	170	<0.0030
	2/7/2007 ^D	230	93	360	<0.04	<0.005	0.43	<1.5	810	0.0051
	6/27/2007	78	49	400	<0.04	0.14	0.34	<1.5	1,600	<0.0030
	9/12/2007	<1.0	50	350	<0.04	<0.005	0.34	<1.5	1,100	<0.0030
	12/6/2007	320	42	330	<0.04	0.19	0.38	<1.5	1,900	<0.0030
	2/20/2008	80	31	250	<0.04	0.14	0.36	<1.5	570	<0.0030
	5/7/2008	11	44	360	<0.04	0.19	<0.011	<1.5	1,400	<0.0030
	7/23/2008	<1.0	52	340	<0.04	0.17	0.40	<1.5	0.86	0.0056
	10/29/2008	82	23.6	321	<0.04	<0.005	0.31	2.3 J	1,800	<0.0030
	1/15/2009	9.0	38.4	356	<0.04	0.27 J	0.32	<1.5	5,000	<0.0030
	4/8/2009	530	6.0 J	327	<0.04	<0.005	0.24	5.8	1,000	<0.0030
	7/22/2009	2.0	28.8	679	<0.04	0.36 J	0.26	<1.5	5,200	<0.0030
	11/12/2009	54	17.2	408	<0.04	<0.005	0.16	4.2 J	460	<0.0030
	2/16/2010	240	24	330	0.34	0.22	0.40	<1.5	2,100	<0.0030
	2/16/2010 ^D	210	<4.0	330	<0.04	0.21	0.40	<1.5	2,100	<0.0030
	4/21/2010	71	18	240	<0.04	0.10	0.40	1.1	1,600	<0.0030
	8/25/2010	42	21	510	<0.04	0.20	0.35	5.2	900	<0.0030
	8/25/2010 ^D	44	19	440	<0.04	0.19	0.37	5.4	910	<0.0030
	12/8/2010	1,200	19	430	<0.04	0.34	0.36	<1.5	1,200	<0.0030
	3/15/2011	360	20	370	<0.04	0.22	0.38	2.6	1,700	<0.0030
	3/15/2011 ^D	300	15	420	<0.04	0.22	0.37	<1.5	1,600	<0.0030
	5/25/2011	80	28	220	<0.04	0.19	0.37	3.6	1,200	<0.0030
	8/16/2011	120	45	430	<0.04	0.24	0.35	<1.5	1,100	<0.0030
	11/9/2011	3,200	23	250	<0.04	0.17	0.39	<1.5	2.3	<0.0030
	11/9/2011 ^D	1,400	26	240	<0.04	0.16	0.38	3.7	8.3	<0.0030
	2/22/2012	62	29	260	<0.22	0.20	0.46	<2.5	1,400	<0.0030
5/16/2012	45	34	300	<0.22	0.23	0.41	<2.5	720	<0.0030	
8/8/2012	<1.0	57	320	<0.22	0.15	0.36	<2.5	770	<0.0030	
10/16/2012	32	44	290	<0.10	0.32	0.39	<2.5	1,200	<0.0030	
2/13/2013	760	40	370	<0.10	0.29	0.40	<2.5	2,300	<0.0030	
5/16/2013	280	280	370	<0.10	0.30	0.54	<2.5	2,400	<0.0030	
7/31/2013	14	22	250	<0.10	0.23	0.37	<2.5	1,500	<0.0030	
10/24/2013	21	42	390	<0.10	0.28	0.50	<2.5	12,000	<0.0030	
6/4/2014	55	37	320	<0.10	0.18	0.34	<2.5	8,400	<0.0030	

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Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-28I	6/22/2006	290	28	367	0.047 J	<0.005	0.22	2.2 J	1,900	<0.0030
	9/13/2006	> 5,700	42.8	338	<0.04	<0.005	0.19	3.5 J	1,500	<0.0030
	11/7/2006	440	15.6	335	<0.04	<0.005	0.22	3.0 J	1,500	<0.0030
	2/7/2007	110	34	380	0.10	0.20	0.35	<1.5	410	<0.0030
	6/27/2007	24	23	330	<0.04	0.27	0.29	<1.5	710	<0.0030
	9/12/2007	37	37	300	<0.04	0.28	0.27	<1.5	560	<0.0030
	12/6/2007	160	34	360	<0.04	0.47	0.64	5.1	370	<0.0030
	2/20/2008	<1.0	25	290	<0.04	0.37	0.29	<1.5	170	<0.0030
	5/7/2008	17	38	560	<0.04	0.31	0.23	<1.5	870	<0.0030
	7/23/2008	51	29	310	<0.04	0.25	280	<1.5	410	<0.0030
	10/29/2008	24	20.8	360	<0.04	0.54 J	0.23	6.7	500	<0.0030
	1/15/2009	3.0	31.6	399	<0.04	.42 J	0.27	<1.5	1,800	<0.0030
	1/15/2009 ^D	4.0	35.2	415	<0.04	0.54 J	0.26	<1.5	1,700	<0.0030
	4/8/2009 ^(S)	89	13.6	351	<0.04	<0.005	0.22	7.7	110	<0.0030
	7/22/2009	<1.0	20	542	<0.04	1.1	0.21	2.6 J	2,100	<0.0030
	11/12/2009	4.0	18	445	<0.04	0.38 J	0.11	7.8	190	<0.0030
	11/12/2009 ^D	4.0	19.6	417	<0.04	0.47 J	0.13	7.8	180	<0.0030
	2/16/2010	10	40	470	<0.04	0.49	0.34	0.96	1,400	<0.0030
	4/21/2010	8.0	16	260	<0.04	0.21	0.32	2.1	800	<0.0030
	8/25/2010	5.5	23	420	<0.04	0.33	0.29	8.5	210	<0.0030
	12/8/2010	6.0	26	470	<0.04	0.55	0.32	2.7	620	<0.0030
	3/14/2011	5.0	15	430	<0.04	0.42	0.29	5.8	500	<0.0030
	5/25/2011	36	32	240	<0.04	0.28	0.38	4.8	570	<0.0030
	8/16/2011	20	32	460	<0.04	0.40	0.31	<1.5	1,400	<0.0030
	11/8/2011	16	21	260	<0.04	0.24	0.30	<1.5	<1.0	<0.0030
	2/22/2012	130	31	380	<0.22	0.22	0.42	<2.5	380	<0.0030
	5/16/2012	62	35	320	<0.22	0.28	0.37	<2.5	22	<0.0030
	8/8/2012	560	32	300	<0.22	0.17	0.42	<2.5	770	<0.0030
10/16/2012	200	30	300	0.28	0.32	0.33	4.4	230	<0.0030	
2/13/2013	26	34	340	<0.10	0.38	0.37	3.2	26	<0.0030	
5/16/2013	150	34	280	<0.10	0.35	0.37	<2.5	690	<0.0030	
7/31/2013	5.0	30	490 J	<0.10	0.50 J	0.29	<2.5	810	<0.0030	
10/24/2013	300	38	340	<0.10	0.38	0.26	<2.5 UJ	7,300	<0.0030	
6/4/2014	1,000	<13	460	<0.10	0.40	0.29	5.2	4,000	<0.0030	

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Analytical Parameters	Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead	
Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-295	6/22/2006	250	58.8	504	<0.04	11.9	0.45	4.0 J	1,200	<0.0030
	9/14/2006	> 5,700	54	546	<0.04	9.9	0.32	1.9 J	5,000	<0.0030
	11/9/2006	190	35.6	509	<0.04	8.3	0.29	3.9 J	5,200	<0.0030
	2/7/2007	30	41	510	0.14	7.5	0.34	<1.5	450	0.0084
	6/27/2007	150	56	490	<0.04	8.3	0.29	<1.5	1,000	<0.0030
	9/11/2007	1,900	54	520	<0.04	8.1	0.40	<1.5	2,500	<0.0030
	12/5/2007	FS	66	500	<0.04	9.3	0.44	<1.5	3,100	0.014
	2/19/2008	93	60	510	<0.04	7.5	0.34	<1.5	2,000	<0.0030
	2/19/2008 ^D	120	38	510	<0.04	7.6	0.35	<1.5	1,800	<0.0030
	5/7/2008	65	40	490	<0.04	8.2	0.30	<1.5	2,100	<0.0030
	7/22/2008	130	20	460	<0.04	7.7	0.41	<1.5	1,700	<0.0030
	10/29/2008	52	37.2	455	<0.04	7.2	0.35	<1.5	4,400	<0.0030
	10/29/2008 ^D	56	41.6	462	<0.04	7.2	0.34	<1.5	4,600	<0.0030
	1/15/2009	1,600	58.8	425	<0.04	7.2	0.32	3.0 J	6,100	<0.0030
	4/7/2009	200	58	464	<0.04	5.8	0.28	7.3	4,000	<0.0030
	7/21/2009	21	47.2	542	<0.04	7.5	0.31	3.3 J	4,800	<0.0030
	11/11/2009	3.0	39	436	<0.04	8.9	0.25	<1.5	5,800	<0.0030
	2/15/2010	110	62	440	0.36	6.4	0.38	2.1	2,800	<0.0030
	4/20/2010	110	46	440	<0.04	4.2	0.39	1.5	6,200	<0.0030
	8/24/2010	15	45	510	<0.04	8.9	0.37	7.0	1,800	<0.0030
	12/7/2010	23	27	420	<0.04	10	0.41	2.7	4,300	<0.0030
	3/14/2011	470	15	540	0.093	4.3	<0.011	4.1	1,800	<0.0030
	5/24/2011	560	57	510	<0.04	3.7	0.33	3.5	4,200	<0.0030
	8/16/2011	250	20	450	0.25	4.5	0.35	<1.5	4,200	<0.0030
	11/8/2011	840	60	450	<0.04	4.1	0.32	<1.5	1,700	<0.0030
	2/21/2012	58	30	380	<0.22	4.4	0.23	13	1,500	<0.0030
	5/16/2012	23	55	460	<0.22	6.6	<0.050	<2.5	1,800	<0.0030
	8/7/2012	300	35	440	0.24	5.7	0.29	<2.5	1,400	<0.0030
10/17/2012	45	77	500	<0.10	7.0	0.37	<2.5	2,200	<0.0030	
2/13/2013	17	62	470	<0.10	9.4	0.39	<2.5	500	<0.0030	
5/16/2013	460	90	320	<0.10	9.9	0.51	<2.5	170	<0.0030	
7/31/2013	660	30	380	<0.10	10	0.48	<2.5	4,400	<0.0030	
10/24/2013	55	16	460	<0.10	8.2	0.35	<2.5	15,000	<0.0030	
6/4/2014	7.0	<13	570	<0.10	9.5	0.41	<2.5	20,000	<0.0030	

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Units		cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	10	3	NCS	250	NCS	0.005
MW-305 (abandoned)	6/21/2006	2,200	75.6	348	<0.04	0.86	0.17	5.2	3,800	<0.0030
	9/13/2006	> 5,700	132	457	<0.04	0.89	0.32	<1.5	2,500	<0.0030
	11/9/2006	> 5,700	147	448	<0.04	1.1	0.24	5.5	6,500	<0.0030
	6/26/2007	> 5,700	650	350	<0.04	0.94	1.6	<1.5	1,800	<0.0030
	9/12/2007	> 5,700	220	440	<0.04	1.0	0.34	<1.5	1,700	<0.0030
	9/12/2007 ^D	> 5,700	180	400	<0.04	1.1	0.33	<1.5	1,500	<0.0030
	12/6/2007	> 5,700	120	520	<0.04	1.3	0.22	<1.5	1,900	<0.0030
	2/20/2008	1,100	2,300	410	<0.04	0.97	1.2	<1.5	1,300	<0.0030
	5/8/2008	> 5,700	36	320	<0.04	0.93	0.26	<1.5	1,700	<0.0030
	7/22/2008	<1.0	36	390	<0.04	2.6	0.29	<1.5	1,800	<0.0030
	10/29/2008	2,300	18	401	<0.04	1.3	0.19	<1.5	4,100	<0.0030
	1/15/2009	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/8/2009	210	40	464	<0.04	1.3	0.14	2.0 J	3,700	<0.0030
	7/22/2009	720	38.8	461	<0.04	1.6	0.21	<1.5	4,200	<0.0030
	11/11/2009	720	33.2	457	<0.04	1.3	<0.011	<1.5	4,400	<0.0030
	2/15/2010	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/21/2010	2,700	50	470	<0.04	0.93	0.26	<1.5	3,300	<0.0030
	4/21/2010 ^D	12,000	48	440	<0.04	0.91	0.26	<1.5	3,200	<0.0030
	8/24/2010	3,600	46	480	<0.04	1.0	0.32	4.9	1,600	<0.0030
	12/8/2010	120	31	460	<0.04	1.2	0.24	<1.5	4,200	<0.0030
12/8/2010 ^D	1,200	41	490	<0.04	1.2	0.27	<1.5	1,400	<0.0030	
3/16/2011	1,200	42	530	<0.04	0.038	0.26	5.5	1,600	<0.0030	
5/24/2011	19,000	68	450	<0.04	0.82	0.32	<1.5	3,200	<0.0030	
8/16/2011	300,000	66	360	<0.04	0.96	0.24	<1.5	2,700	<0.0030	
8/16/2011 ^D	300,000	66	360	<0.04	0.96	0.24	<1.5	2,700	0.003	
11/8/2011	3,300	23	330	<0.04	0.70	0.34	<1.5	2,700	<0.0030	
MW-305(R)	2/22/2012	68	28	290	<0.22	0.52	0.47	<2.5	1,700	<0.0030
	5/16/2012	440	30	390	<0.22	0.62	0.41	<2.5	320	<0.0030
	5/16/2012 ^D	310	35	360	<0.22	0.63	0.42	<2.5	490	<0.0030
	8/8/2012	<1.0	35	360	<0.22	0.64	0.37	<2.5	1,200	<0.0030
	8/8/2012 ^D	800	35	370	<0.22	0.36	0.37	<2.5	1,200	<0.0030
	10/17/2012	1,800	43	400	<0.10	0.92	0.43	<2.5	1,600	<0.0030
	2/13/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/16/2013	140	34	270	<0.10	0.60	0.50	<2.5	1,200	<0.0030
	8/1/2013	750 J	32 J	180	<0.10 R	0.75	0.37	<2.5	3,100 J	<0.0030
	8/1/2013 ^D	460 J	22 J	220	<0.10	0.74	0.38	<2.5	2,200 J	<0.0030
	10/24/2013	68 J	38	390	<0.10	0.70	0.32	<2.5	10,000	<0.0030
	10/24/2013 ^D	23 J	34	400	<0.10	0.71	0.32	<2.5	11,000	<0.0030
6/4/2014	140	17	420	<0.10	0.60	0.36	<2.5	14,000	<0.0030	

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Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-30I	6/21/2006	> 5,700	18.8	369	<0.04	1.8	0.15	8.2	1,100	<0.0030
	9/13/2006	290	41.6	414	<0.04	0.83	0.23	3.2 J	1,200	<0.0030
	11/8/2006	40	17.2	456	<0.04	0.89	0.24	11.1	930	<0.0030
	11/8/2006 ^D	43	41.2	478	<0.04	<0.005	0.23	11.1	930	<0.0030
	2/7/2007	36	34	300	<0.04	0.80	0.31	<1.5	680	<0.0030
	6/26/2007	<1.0	41	430	<0.04	1.0	0.33	<1.5	97	<0.0030
	12/6/2007	470	69	530	<0.04	1.1	0.45	<1.5	<1.0	<0.0030
	2/19/2008	2.0	33	410	<0.04	1.2	0.34	<1.5	370	<0.0030
	5/7/2008	23	27	540	<0.04	1.0	<0.011	<1.5	510	<0.0030
	5/7/2008 ^D	16	26	300	<0.04	1.0	0.29	<1.5	560	<0.0030
	7/22/2008	<1.0	31	390	<0.04	1.3	0.38	<1.5	790	<0.0030
	10/29/2008	6.0	21.6	411	<0.04	1.4	0.27	4.4 J	400	<0.0030
	1/15/2009	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/8/2009	670	36.8	474	<0.04	1.3	0.19	5.9	270	<0.0030
	7/23/2009	5.0	28	431	<0.04	1.3	0.26	4.3 J	660	<0.0030
	7/23/2009 ^D	6.0	24.8	444	<0.04	0.72	0.25	4.2 J	730	<0.0030
	11/11/2009	13	24	448	<0.04	<0.005	0.14	6.1	170	<0.0030
	2/15/2010	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/21/2010	130	42	460	<0.04	0.86	0.38	<1.5	2,100	<0.0030
	8/24/2010	50	31	440	<0.04	1.1	0.39	5.6	640	<0.0030
	12/7/2010	17	39	540	<0.04	1.1	0.35	5.1	65	<0.0030
	3/16/2011	50	27	500	<0.04	<0.005	0.30	10	670	<0.0030
	5/25/2011	78	57	390	<0.04	0.57	0.46	2.7	1,200	<0.0030
	5/25/2011 ^D	160	40	390	<0.04	0.72	0.43	2.6	1,700	<0.0030
	8/16/2011	350	28	380	<0.04	0.79	0.34	<1.5	940	<0.0030
	11/8/2011	890	17	280	<0.04	0.69	0.56	<1.5	76	<0.0030
	2/22/2012	27	27	330	<0.22	0.51	0.51	<2.5	1,800	<0.0030
	5/17/2012	34	27	360	<0.22	0.60	0.42	<2.5	15	<0.0030
	8/8/2012	33	36	370	<0.22	0.42	0.39	<2.5	670	<0.0030
	10/17/2012	22	35	390	<0.10	0.76	0.39	<2.5	770	<0.0030
10/17/2012 ^D	16	36	410	<0.10	0.32	0.39	<2.5	730	<0.0030	
2/13/2013	58	30	400	<0.10	0.63	0.43	<2.5	21	<0.0030	
2/13/2013 ^D	61	29	400	<0.10	0.62	0.47	<2.5	9.4	<0.0030	
5/16/2013	1.5	24	430	<0.10	0.53	0.51	<2.5	170	<0.0030	
8/1/2013	930	26	50	<0.10 R	0.67	0.38	<2.5	1,900	<0.0030	
10/24/2013	150	26	370	<0.10	0.64	0.34	<2.5	3,700	<0.0030	
6/4/2014	79	16	510	<0.10	0.58	0.39	10	8,000	<0.0030	

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Units	cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L	
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA	NCS	NCS	500	10	3	NCS	250	NCS	0.005	
MW-30D	6/21/2006	2,800	11.6	248	<0.04	0.30 J	<0.011	9.7	45	<0.0030
	9/14/2006	> 5,700	6.4 J	288	0.043 J	<0.005	<0.011	10.6	5.3	<0.0030
	11/8/2006	47	5.6 J	375	<0.04	<0.005	<0.011	12.5	22	<0.0030
	6/26/2007	130	13	240	<0.04	0.11	<0.011	10	77	<0.0030
	9/12/2007	78	9.0	260	<0.04	0.16	<0.011	11	<1.0	<0.0030
	12/4/2007	FS	20	300	<0.04	0.24	0.11	11	<1.0	<0.0030
	12/4/2007 ^D	FS	20	270	<0.04	0.19	0.28	11	<1.0	<0.0030
	2/19/2008	790	8.0	300	<0.04	0.12	<0.011	9.4	47	<0.0030
	5/7/2008	420	12	370	<0.04	0.27	<0.011	5.3	140	<0.0030
	7/22/2008	<1.0	9.2	280	<0.04	0.31	0.13	9.2	16	<0.0030
	10/29/2008	40	9.2 J	309	<0.04	0.27 J	<0.011	12.7	<5	<0.0030
	1/15/2009	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/8/2009	75	9.2 J	324	0.046 J	<0.005	<0.011	14.3	5 J	<0.0030
	7/21/2009	9.0	6.4 J	321	<0.04	<0.005	<0.011	14.8	60	<0.0030
	11/11/2009	7.0	5.2 J	331	0.10	<0.005	<0.011	15	<5	<0.0030
	2/15/2010	38	11	350	<0.04	0.12	0.05	10	90	<0.0030
	4/21/2010	33	6.0	110	<0.04	0.079	0.051	8.7	71	<0.0030
	8/24/2010	8,300	15	300	<0.04	0.071	0.13	12	<1.0	<0.0030
	12/7/2010	56	10	500	0.11	0.16	0.054	14	<1.0	<0.0030
	3/16/2011	250	7.0	330	<0.04	0.92	<0.011	14	11	<0.0030
	5/25/2011	3,500	5.0	300	0.30	0.072	0.081	12	28	<0.0030
	8/16/2011	1,100	5.0	350	0.29	0.098	<0.011	8.7	64	<0.0030
	11/9/2011	450	5.0	270	0.30	0.13	<0.011	9.7	9.8	<0.0030
	2/22/2012	24	7.0	300	0.29	0.10	0.11	6.7	400	<0.0030
	5/17/2012	23	6.0	330	0.29	0.13	0.073	11	1.2	<0.0030
	8/8/2012	1,200	9.0	290	0.26	0.052	0.072	11	<1.0	<0.0030
10/16/2012	28	7.0	290	0.28	0.098	0.092	13	3.1	<0.0030	
2/13/2013	80	7.0	300	0.24	0.074	0.092	13	3.5	<0.0030	
5/16/2013	40	<4.0	330	<0.10	0.056	0.14	9.9	16	<0.0030	
8/1/2013	360	18	170	<0.10 R	0.017	0.20	<2.5	22	<0.0030	
10/24/2013	160	5.0	300	<0.10	0.097	<0.050	11	8.8	<0.0030	
6/4/2014	500	8.0	360	<0.10	0.063	<0.050	9.5	1,000	<0.0030	
MW-31S	5/8/2008	> 5,700	460	810	0.12	22	0.68	44	3,000	<0.0030
	7/23/2008	<1.0	320	1,900	<0.04	22	0.71	72	2,100	<0.0030
	10/30/2008	> 5,700	11.5 J	502	<0.04	10.8	0.14	84.2	2,800	<0.0030
	1/14/2009	620	35.2	629	<0.04	22.6	0.40	47.9	11,000	<0.0030
	4/9/2009	> 5,700	<4.0	556	0.056 J	6.4	<0.011	136	2,400	<0.0030
	7/23/2009	6,800	36.8	576	<0.04	19.8	0.12	35.9	12,000	<0.0030
	11/12/2009	100,000	7.6 J	619	<0.04	9.1	<0.011	187	3,200	<0.0030
	2/16/2010	230	54	600	<0.04	16	0.30	56	15,000	<0.0030
	4/22/2010	210,000	5.0	630	<0.04	12	0.26	36	13,000	<0.0030
	8/25/2010	> 30,000	11	920	<0.04	15	0.25	41	3,900	<0.0030
	12/9/2010	> 30,000	23	430	<0.04	2.0	0.10	510	970	<0.0030
	3/17/2011	36,000	<4.0	620	<0.04	9.1	0.21	120	10,000	<0.0030
	5/26/2011	180	23	640	<0.04	0.13	0.24	46	6,800	<0.0030
	8/16/2011	66	<4.0	560	<0.04	8.2	0.21	58	8,000	<0.0030
	11/9/2011	180	110	480	<0.04	5,800	0.30	42	5,800	<0.0030
	2/23/2012	910	4.0	580	<0.22	9.1	0.22	30	11,000	<0.0030
	5/15/2012	200,000	9.0	550	<0.22	7.4	0.22	110	3,400	<0.0030
	8/7/2012	1,400	44	550	0.24	14	0.33	31	2,500	<0.0030
	10/16/2012	> 300,000	11	1,100	0.41	1.2	0.11	380	710	<0.0030
	2/11/2013	54,000	130	580	<0.10	5.3	0.17	150	4,200	<0.0030
5/14/2013	210,000	<8.0	580	0.28	6.5	0.19	80	6,100	<0.0030	
7/30/2013	3,500	7.0	530	<0.10	11	0.18	43	8,700	<0.0030	
10/22/2013	100,000	8.0	440	<0.10	8.6	0.20	33	4,800	<0.0030	
6/3/2014	900	23	540	<0.10	9.7	0.28	41	41,000	<0.0030	

LEGEND

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NCS: No Criteria Specified by NJDEP
Bold concentrations are above reporting limits but below criteria.

Concentration exceeds NJGWQS

FS = Well frozen.
NS = Not Sampled
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D = Duplicate sample
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TABLE 3
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Analytical Data

First Semiannual
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Analytical Parameters		Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
Units		cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	10	3	NCS	250	NCS	0.005
MW-32S	5/8/2008	> 5,700	NS	3,400	<0.04	2.0	14	8.6	4,800	<0.0030
	7/23/2008	410	NS	650	<0.04	1.6	2.6	NS	2,900	<0.0030
	10/30/2008	> 5700	50	818	<0.04	1.6	0.11	200	5,400	<0.0030
	1/15/2009	430	385	637	<0.04	0.69	<0.011	8.9	9,500	<0.0030
	4/8/2009	240	35.2	612	0.16	1.8	<0.011	122	6,900	<0.0030
	7/23/2009	290	113	620	<0.04	<0.005	<0.011	2.8 J	12,000	<0.0030
	11/12/2009	5,200	208	691	<0.04	1.2	<0.011	47.9	7,300	<0.0030
	2/16/2010	4,600	15	540	<0.04	0.53	0.13	4.7	13,000	<0.0030
	4/22/2010	370	52	520	<0.04	0.085	0.14	11	11,000	<0.0030
	8/25/2010	11,000	400	850	<0.04	0.40	0.17	12	5,100	<0.0030
	12/9/2010	500,000	69	300	<0.04	0.54	0.29	460	2,100	<0.0030
	3/17/2011	950	31	710	<0.04	0.35	0.17	120	8,700	<0.0030
	5/25/2011	56,000	41	700	<0.04	1.4	0.35	49	7,200	<0.0030
	8/16/2011	140,000	30	720	<0.04	2.1	0.29	70	6,800	<0.0030
	11/9/2011	230,000	200	760	<0.04	0.83	0.21	38	9,400	<0.0030
	2/23/2012	1,800	74	740	<0.22	0.33	0.12	72	8,600	<0.0030
	5/15/2012	5,200	52	770	<0.22	0.22	0.13	160	1,200	<0.0030
	8/7/2012	12,000	170	550	<0.22	0.22	0.25	5.2	4,000	<0.0030
	10/16/2012	330,000	41	1,000	<0.10	0.086	0.21	270	1,400	<0.0030
	2/11/2013	120,000	61	780	<0.10	0.53	0.27	140	7,400	<0.0030
5/14/2013	10	60	430	<0.10	0.21	0.23	<2.5	15,000	<0.0030	
7/30/2013	12,000	46	680	<0.10	0.94	<0.050	55	4,500	<0.0030	
10/22/2013	8,500	44	300	<0.10	0.77	0.14	3.4	6,000	<0.0030	
6/3/2014	700	130	660	<0.10	0.93	0.21	41	40,000	<0.0030	
MW-33S	5/8/2008	>5,700	220	310	<0.04	5.0	0.17	7.5	2,800	0.011
	7/23/2008	<1.0	250	380	<0.04	7.0	<0.011	10	2,000	<0.0030
	10/30/2008	> 5,700	51	358	<0.04	7.4	0.13	8.6	4,800	<0.0030
	1/15/2009	160	122	395	<0.04	<0.005	<0.011	68.1	9,600	<0.0030
	4/9/2009	2,800	74	410	<0.04	6.7	0.31	4.8 J	8,400	<0.0030
	7/23/2009	1,200	181	610	<0.04	5.8	0.42	12.9	5,100	<0.0030
	11/12/2009	670	85	518	<0.04	5.8	<0.011	7.2	3,200	<0.0030
	2/16/2010	6,700	<4.0	420	<0.04	7.2	0.06	6.2	6,900	<0.0030
	4/22/2010	6,000	74	460	<0.04	4.0	0.098	9.3	6,100	<0.0030
	8/25/2010	66,000	22	650	<0.04	4.3	0.13	18	540	<0.0030
	12/9/2010	34,000	34	1,400	<0.04	4.0	0.19	110	270	<0.0030
	3/17/2011	21,000	23	750	<0.04	1.8	0.08	120	2,200	<0.0030
	5/26/2011	9,300	92	700	0.28	1.4	0.15	77	1,500	<0.0030
	8/16/2011	560	100	580	<0.04	2.8	0.22	29	1,200	<0.0030
	11/9/2011	NA	130	540	<0.04	2.6	0.11	9.8	2,300	<0.0030
	2/23/2012	530	84	390	<0.22	2.8	<0.050	4.1	3,900	<0.0030
	5/15/2012	1,200	120	430	<0.22	3.1	0.12	5.5	2,000	<0.0030
	8/7/2012	1,200	100	330	<0.22	2.8	0.074	<2.5	590	<0.0030
	10/16/2012	<1.0	46	370	<0.10	4.2	0.073	6.5	2,100	<0.0030
	2/11/2013	2,000	85	340	<0.10	3.8	0.16	8.3	5,400	<0.0030
5/14/2013	790	33	400	<0.10	4.8	0.073	8.0	4,400	<0.0030	
7/30/2013	28,000	650	380	<0.10	4.0	<0.050	11	1.7	<0.0030	
10/22/2013	800	22	290	<0.10	3.3	<0.050	2.7	1,000	<0.0030	
6/3/2014	1,000	70	470	<0.10	3.4	0.15	8.4	11,000	<0.0030	

LEGEND

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NCS: No Criteria Specified by NJDEP

Bold concentrations are above reporting limits but below criteria.

Concentration exceeds NJGWQS

FS= Well frozen.

NS = Not Sampled

NMW = Not Measured due to insufficient purge volume.

D = Duplicate sample

L = Lower Grab Sample

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J: Value estimated due to method exceeding QC limits.

U: Analyte was detected in a method blank.

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TABLE 3
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Analytical Data

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Analytical Parameters		Heterotrophic Plate Count	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane	Dissolved Lead
Units		cfu/mL	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	mg/L
NEW JERSEY GROUNDWATER QUALITY STANDARDS CLASS IIA		NCS	NCS	500	10	3	NCS	250	NCS	0.005
MW-34S	5/6/2008	> 5,700	NS	490	<0.04	<0.005	<0.011	12	3,700	<0.0030
	7/23/2008	<1.0	NS	NS	NS	<0.005	0.34	NS	2,800	NS
	10/30/2008	2,100	<4.0	693	0.53	0.35 J	<0.011	23.9	490	<0.0030
	1/15/2009	NS	NS	NS	<0.04	<0.005	<0.011	NS	7,200	<0.0030
	4/8/2009	NS	26.4	369	0.16	0.38 J	<0.011	8.7	8,600	<0.0030
	7/23/2009	150	56.4	NS	<0.04	<0.005	<0.011	4.9 J	9,600	<0.0030
	11/12/2009	45	293	462	<0.04	<0.005	<0.011	9.8	4,400	<0.0030
	2/16/2010	9,300	27	400	<0.04	0.13	<0.011	2.8	9,200	<0.0030
	4/22/2010	1,700	20	370	<0.04	<0.005	<0.011	2.8	8,700	<0.0030
	8/25/2010	> 30,000	NS	NS	NS	0.032	0.084	NS	3,100	<0.0030
	12/9/2010	8,700	24	180	0.23	0.14	<0.011	210	<1.0	<0.0030
	3/17/2011	810	6.0	380	<0.04	0.13	<0.011	65	270	<0.0030
	5/26/2011	2,600	24	560	<0.04	0.15	0.064	81	1,300	<0.0030
	8/16/2011	40	22	580	<0.04	0.16	0.06	100	800	<0.0030
	11/9/2011	1,800	48	720	0.27	0.40	<0.011	60	9.9	<0.0030
	2/23/2012	94	45	650	<0.22	0.30	<0.050	53	2,100	<0.0030
	5/15/2012	830	23	710	<0.22	0.26	0.10	85	610	<0.0030
	8/7/2012	2,100	61	470	<0.22	0.24	0.08	29	3,700	<0.0030
	10/16/2012	> 3,000	7.0	750	<0.10	0.025	<0.050	140	<1.0	<0.0030
	2/11/2013	3,500	19	570	0.25	0.14	0.15	88	43	<0.0030
5/14/2013	1,300	<8.0	610	0.17	0.075	0.077	71	240	<0.0030	
7/30/2013	15,000	19	750	<0.10	0.41	<0.050	32	450	<0.0030	
10/22/2013	250	28	200	<0.10	0.25	<0.050	24	4,200	NMW	
6/3/2014	3,400	23	560	<0.10	0.019	0.062	28	4,600	<0.0030	
MW-35S	5/6/2008	> 5,700	2,100	570	<0.04	1.8	<0.011	13	3,900	<0.0030
	7/23/2008	<1.0	85	520	<0.04	1.3	<0.011	<1.5	3,600	<0.0030
	10/30/2008	> 5,700	22.4 J	568	<0.04	2.9	0.16	20.6	12,000	<0.0030
	1/15/2009	1,800	37.6	499	<0.04	0.77	0.087 J	<1.5	20,000	<0.0030
	4/8/2009	680	77.6	459	<0.04	1.1	0.19	9.4	20,000	<0.0030
	7/23/2009	50	114	466	<0.04	1.4	0.25	<1.5	17,000	<0.0030
	11/12/2009	1,100	26.8	508	<0.04	0.84	<0.011	17.1	8,400	<0.0030
	2/16/2010	680	<4.0	460	<0.04	0.24	0.075	0.87	17,000	<0.0030
	4/22/2010	76	38	540	<0.04	0.081	0.079	<1.5	15,000	<0.0030
	8/16/2011	170	35	570	<0.04	0.15	0.11	4.6	13,000	<0.0030
	12/9/2010	5,800	64	720	<0.04	0.78	0.089	24	4,200	<0.0030
	3/17/2011	580	39	430	<0.04	0.11	0.098	2.7	9,200	<0.0030
	5/26/2011	630	61	530	<0.04	0.20	0.18	<1.5	6,500	<0.0030
	8/16/2011	440	48	550	<0.04	0.40	0.15	3.6	12,000	<0.0030
	11/9/2011	> 57,000	76	400	0.22	0.17	0.14	<1.5	5,900	<0.0030
	2/23/2012	1,000	33	380	<0.22	0.11	0.17	<2.5	8,700	<0.0030
	5/15/2012	540	30	390	<0.22	0.21	0.23	<2.5	14,000	<0.0030
	8/7/2012	<1.0	200	380	<0.22	0.20	0.27	<2.5	5,800	<0.0030
	10/16/2012	<1.0	60	400	<0.10	0.28	0.18	30	6,500	<0.0030
	2/11/2013	6,400	34	440	<0.10	0.18	0.17	<2.5	15,000	<0.0030
5/14/2013	10	60	430	<0.10	0.21	0.23	<2.5	15,000	<0.0030	
7/30/2013	4,400	52	460	<0.10	0.23	0.14 J	<2.5	11,000	<0.0030	
10/22/2013	800	64	390 J	0.50	0.12 J	0.12	3.0	26,000	<0.0030	
6/3/2014	340	50	420	<0.10	0.10	0.19	<2.5	44,000	<0.0030	
6/3/2014 ^D	400	67	450	<0.10	0.12	0.19	120	43,000	<0.0030	

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J: Value estimated due to method exceeding QC limits.

U: Analyte was detected in a method blank.

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NOTES

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05. Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-5, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-25, and GEI-2I were abandoned in October 2009.

(1) Sulfate results reported through 4Q06, and starting again in 4Q08, have a dilution factor of 5, except for blank samples or unless otherwise noted.

Sulfate results reported from 1Q07 through 3Q08 have no dilution factor for sulfate unless noted otherwise.

(2) NJ CLASS IIA GWQC, NJ SWQC [FW2] and PQL are for Total Lead

(3) MW-19 area monitoring wells were abandoned in 4Q2009. Therefore, MW-19 area wells have not been sampled for MNA parameters since 1Q10.

MNA monitoring will continue following the installation of the USEPA approved post excavation monitoring well network.

TABLE 4
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Field Data

First Semiannual
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Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-19R	12/8/2010	7.02	1,144	-28.2	0.09	9.35	13.34	15	180	17
	3/14/2011	6.91	993	0.5	2.56	9.94	6.99	0.2	120	14
	5/24/2011	6.77	1,900	82	2.25	6.21	12.57	0.2	200	40
	8/16/2011	7.18	1,440	-53	0.62	9.50	16.86	2	130	35
	11/9/2011	6.76	900	116.7	ERR	3.00	15.23	0	200	40
	2/22/2012	7.00	1,290	29	3.79	5.40	9.20	0	180	20
	5/16/2012	6.52	1,020	96	1.02	1.50	15.48	2	180	20
	8/9/2012	6.57	1,370	-42	1.39	1.30	18.93	6	120	50
	10/18/2012	6.67	1,330	-40	6.02	0.00	17.45	5	100	40
	2/12/2013	6.61	1,340	158	2.46	3.00	9.24	0	100	NM
5/15/2013	6.60	1,630	80	4.32	6.80	11.22	0	10	70	
7/31/2013	6.49	1,560	179	1.05	24.0	19.67	0	10	50	
10/23/2013	6.12	1,420	12	0.69	0.00	16.3	0	100	20	
MW-19-5R	12/8/2010	6.84	976	-98	0.10	9.70	14.06	>20	250	17
	3/16/2011	6.66	1,018	55.1	0.16	4.59	8.83	15	180	30
	5/25/2011	6.47	1,322	-54	2.02	7.60	11.89	>20	250	70
	8/16/2011	7.25	1,414	-112	0.45	9.00	16.71	>20	300	70
	11/9/2011	6.72	789	-82.4	ERR	4.00	15.24	>20	300	50
	2/22/2012	6.96	1,080	-82	1.00	3.50	10.38	>20	110	30
	5/16/2012	6.55	1,180	-58	0.65	1.00	15.15	NM	200	50
	8/9/2012	6.58	993	-107	3.61	0.00	17.50	20	275	70
	10/18/2012	6.71	1,020	-86	2.88	0.00	17.49	20	200	70
	2/14/2013	6.61	982	-83	2.59	0.00	9.66	20	200	70
	5/15/2013	6.90	1,050	-104	1.89	6.00	11.86	30	80	50
	7/31/2013	6.57	867	-72	0.71	5.20	18.89	20	50	30
	10/23/2013	6.33	1,260	-57	0.25	0.00	16.45	20	100	30
6/3/2014	6.74	1,030	-128	0.59	0.00	11.6	16	180	4.5	
MW-19-6R	12/8/2010	6.99	768	19.8	1.50	8.83	14.06	1	130	11
	3/14/2011	6.72	2,000	-32	0.22	7.85	9.63	2	160	20
	5/25/2011	6.62	1,302	1	3.86	9.50	11.33	1	130	20
	8/16/2011	7.13	1,365	-29	1.24	2.97	17.52	1	140	25
	11/9/2011	6.91	534	-29.6	ERR	9.00	14.78	1	120	20
	2/22/2012	6.72	630	-8	5.28	3.10	10.54	3	160	20
	5/15/2012	6.16	1,300	114	1.17	2.10	13.66	1	350	25
	8/9/2012	6.31	1,230	-34	2.12	0.00	18.10	3	190	50
	10/17/2012	6.58	1,080	-36	0.36	5.00	17.78	4	150	45
	2/12/2013	6.33	1,720	42	5.92	0.00	10.53	3	150	100
	5/14/2013	6.20	2,870	18	2.36	0.00	12.61	3	70	35
	7/30/2013	6.27	9,400	25	1.09	5.10	17.67	4	60	25
	10/23/2013	6.12	1,720	27	0.50	0.00	16.30	4	18	25
MW-19-7R	12/8/2010	7.07	747	-28.2	0.10	9.46	15.01	5	130	11
	3/14/2011	6.83	1,521	12.5	0.22	12.0	9.10	16	180	25
	5/25/2011	6.54	1,870	-65	2.30	5.24	12.14	14	150	35
	8/16/2011	7.00	1,189	-54	0.52	7.64	18.41	10	140	30
	11/9/2011	6.85	774	-59.8	1.71	8.00	14.96	4	150	30
	2/22/2012	6.75	1,480	-16	1.75	4.10	10.18	4	100	18
	5/16/2012	6.32	1,010	109	0.81	1.00	14.29	3	100	20
	8/9/2012	6.37	710	-90	3.01	5.20	18.22	3	70	30
	10/17/2012	6.55	745	-3	3.50	0.20	19.17	7	100	35
	2/12/2013	6.48	3,440	101	3.09	9.10	9.94	4	100	30
	5/15/2013	6.70	2,210	-9	2.68	5.50	12.44	3	70	28
	7/30/2013	6.51	1,340	63	1.62	4.20	19.21	2	50	15
	10/22/2013	6.15	635	60	0.89	0.00	18.25	1	13	50
6/3/2014	6.34	2,440	20	7.41	0.50	12.95	NM	70	30	

LEGEND

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¹ Lower Grab Sample
^U Upper Grab Sample

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 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Groundwater Monitoring - MNA Field Data

First Semiannual
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Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-19-8 (Ross Street Well)	6/16/2004	6.90	2,010	-24	3.98	10.0	15.69	NM	125	30
	8/10/2004	7.52	1,093	48	0.40	7.00	18.29	2	100	19
	1/12/2005 ⁽¹⁾	7.06	177	161	0.30	16.0	12.92	10	142	28
	4/11/2005	7.92	1,510	NM	0.80	47.0	10.82	6	70	19
	7/27/2005	7.07	1,820	147	0.00	2.00	18.86	3	80	19
	10/27/2005	6.10	1,460	330	6.74	5.00	17.19	3	85	20
	3/14/2011	6.87	2,162	80.1	3.36	8.13	8.59	0	130	14
	8/16/2011	6.94	704	156	2.46	4.45	21.11	NM	NM	NM
	11/9/2011	6.96	301	259.6	8.26	4.69	13.38	NM	NM	NM
	2/21/2012	7.28	519	228	7.56	2.20	7.67	0	20	10
5/15/2012	6.67	489	125	6.48	4.00	14.66	NM	NM	NM	
MW-19-12 (Ross Street Well)	6/21/2006	7.29	1,046	-33	0.99	9.00	16.06	4	120	100
	9/12/2006	7.41	1,460	5	0.21	18.0	17.90	4	12	17
	2/6/2007	6.91	680	-39.6	0.18	8.00	12.29	1.5	100	10
	6/26/2007	7.24	473	137	2.00	5.00	18.56	0	110	11
	9/11/2007	7.45	463	118	2.00	2.00	19.20	0	85	0
	12/4/2007	7.55	439	2.7	9.00	8.10	9.68	0	110	<10
	2/19/2008	6.72	197.2	78.4	2.00	2.00	7.59	0	40	<10
	5/6/2008	7.09	386	79	7.40	0.12	13.31	0	110	<10
	7/22/2008	7.23	369	51	4.29	6.00	19.58	0	70	12
	10/28/2008	6.72	500	91	4.63	2.00	13.64	0.1	110	12
	1/13/2009	7.91	568	72	6.47	0.50	7.47	0.1	120	<10
	4/7/2009	7.59	621	18	9.60	7.18	9.29	0	70	6
	7/21/2009	7.11	464	123	4.98	1.00	17.23	0	70	13
	11/10/2009	7.86	507	164	5.70	3.00	13.16	0	100	15
	2/15/2010	7.86	207	352	7.27	1.00	6.65	0	100	20
	4/20/2010	7.53	377	42.2	5.20	9.30	12.22	NM	NM	NM
	8/24/2010	6.81	423	151	5.17	8.00	18.90	NM	NM	NM
	12/7/2010	7.33	324	-65.2	4.46	2.89	10.83	0	110	<10
	3/14/2011	7.30	293	47.2	5.30	5.34	8.30	0	100	10
	5/24/2011	7.27	419	530	3.92	9.80	14.19	0	100	11
	8/16/2011	7.12	739	166	3.43	0.79	19.86	6	50	10
	11/8/2011	7.05	261	562.3	6.33	4.03	11.38	0	50	10
	2/21/2012	7.23	437	480	7.92	0.00	7.42	0	35	10
	5/15/2012	6.77	472	187	8.99	0.10	14.29	0	70	10
8/8/2012	6.98	359	86	7.61	0.00	20.79	0	70	20	
10/17/2012	7.06	438	50	6.97	0.10	16.19	0	NMW	13	
2/12/2013	7.04	476	637	5.91	0.00	7.28	0	50	10	
5/14/2013	7.50	503	223	9.33	6.10	14.80	0	100	<10	
7/30/2013	6.82	570	99	8.82	1.50	20.02	1	50	10	
10/22/2013	6.82	488	-15	5.66	0.00	15.49	0	100	10	
MW-19-13	12/7/2010	6.96	704	-36.7	0.11	44.7	14.74	>20	160	18
	3/14/2011	6.31	734	45	1.44	190	9.21	10	40	45
	5/25/2011	6.49	976	-59	0.14	41.9	12.48	10	150	40
	8/16/2011	7.04	977	-100	0.08	12.2	16.08	16	180	50
	11/8/2011	6.68	798	-51	0.74	9.00	15.29	20	200	50
	2/22/2012	6.77	930	-65	6.26	9.10	10.39	16	180	25
	5/15/2012	6.38	935	80	1.00	6.70	12.92	20	160	30
	8/9/2012	6.46	891	-102	5.88	7.50	17.33	18	250	120
	10/18/2012	6.62	955	-82	2.33	0.00	17.81	12	250	120
	2/12/2013	6.67	877	-101	4.59	18.3	10.86	20	70	NM
	5/15/2013	6.90	880	-99	7.32	42.1	11.16	10	100	70
	7/30/2013	6.65	8,400	-90	0.46	10.0	18.48	10	100	60
	10/23/2013	6.33	937	-75	0.69	0.00	16.33	20	13	18
	6/3/2014	6.43	835	-48	1.61	2.40	11.08	18	140	24

LEGEND

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First Semiannual
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Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-19-14	12/8/2010	6.79	1,054	-5.5	0.14	3.83	12.37	4	200	18
	3/16/2011	6.92	944	33.4	3.41	8.03	7.37	0.2	190	15
	5/24/2011	6.82	1,810	126	2.35	8.90	12.25	0.1	160	18
	8/16/2011	7.05	1,830	-53	1.23	7.46	17.84	3	250	30
	11/8/2011	6.87	930	50.8	6.45	4.00	14.78	0	160	35
	2/21/2012	7.10	1,240	40	1.12	9.50	8.61	0	100	35
	5/15/2012	6.59	1,320	127	1.92	9.50	12.46	1	100	16
	8/9/2012	6.88	1,500	-44	6.79	18.1	18.18	1	250	24
	10/18/2012	6.51	1,320	-14	6.07	0.00	17.85	2	200	20
	2/12/2013	6.61	1,200	106	3.63	10.6	8.56	0	100	NM
5/14/2013	6.70	1,370	73	1.40	0.00	11.32	0	80	30	
7/30/2013	6.60	1,490	12	0.79	9.00	20.60	0	80	10	
10/23/2013	6.53	1,630	-37	6.38	7.70	15.50	5	100	30	
MW-19-15	12/7/2010	6.94	647	57.8	1.10	47.0	14.45	0.2	160	13
	3/14/2011	6.58	1,606	92.5	3.73	15.2	8.64	0.2	150	11
	5/24/2011	6.40	1,202	26	1.52	15.1	12.81	2	100	30
	8/16/2011	6.78	1,287	11	1.18	27.0	17.06	0.6	100	35
	11/8/2011	6.41	896	96.7	5.21	9.00	15.34	0.2	50	30
	2/21/2012	6.98	854	115	4.61	78.0	10.91	0	50	14
	5/15/2012	6.41	864	133	1.94	12.8	13.24	0	70	18
	8/8/2012	6.47	843	74	5.99	5.80	17.13	0	100	35
	10/17/2012	6.49	871	146	3.41	0.00	16.25	0	100	40
	2/12/2013	6.70	1,110	208	3.59	1.10	11.24	0	70	30
5/15/2013	7.10	1,140	135	7.69	55.6	12.01	0	100	10	
7/31/2013	6.50	1,160	133	2.00	24.0	22.89	0	100	0	
10/23/2013	6.32	1,110	129	0.99	3.30	16.15	0	50	18	
MW-19-16	12/7/2010	7.37	1,163	44.6	2.68	8.81	11.96	0.2	160	11
	3/14/2011	6.75	914	84.7	0.21	9.15	6.56	0.3	150	11
	5/24/2011	6.96	1,700	153	2.62	9.12	12.80	0	130	18
	8/16/2011	7.50	1,930	18	2.30	9.85	20.39	0.1	160	25
	11/8/2011	7.06	1,081	80.6	4.62	6.00	13.63	0	100	35
	2/21/2012	7.41	1,420	10	1.97	9.00	8.39	0.2	50	15
	5/15/2012	6.89	1,330	134	2.04	9.50	12.41	0.1	50	18
	8/9/2012	7.36	1,590	35	6.61	18.1	19.20	0	70	14
	10/18/2012	7.06	1,530	13	2.51	8.00	16.39	0	70	20
	2/12/2013	7.18	1,180	163	2.51	11.1	7.93	0	100	20
5/15/2013	8.00	1,150	86	9.31	82.3	12.05	1	100	11	
7/30/2013	6.90	1,340	84	0.85	11.4	19.81	0.1	100	10	
10/23/2013	6.82	1,650	74	1.02	25.2	15.63	0	200	25	
MW-19-17 (Ross Street Well)	12/8/2010	7.16	506	5.5	0.11	9.46	14.60	7	120	<10
	3/14/2011	6.59	1,332	-2.2	0.17	9.19	10.47	13	110	27
	5/24/2011	6.68	1,720	5	2.24	14.6	13.44	1	130	25
	8/16/2011	7.29	812	-135	1.00	9.50	20.45	10	100	20
	11/8/2011	6.69	558	-25.6	3.92	8.27	15.53	3	70	30
	2/21/2012	7.18	546	-80	1.79	7.70	10.72	10	40	16
	5/15/2012	6.83	489	72	0.90	8.90	14.93	10	50	15
	8/8/2012	6.79	492	-116	1.90	6.10	21.24	8	100	35
	10/17/2012	6.99	530	-133	0.45	1.00	20.10	8	120	30
	2/14/2013	6.68	717	-119	6.34	0.00	10.91	10	100	20
5/14/2013	7.10	697	-134	8.43	0.00	14.47	20	70	16	
7/30/2013	6.77	689	-122	8.49	3.60	18.94	8	100	20	
10/23/2013	6.72	681	-132	2.08	2.30	17.90	10	140	25	

LEGEND

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Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-8	7/23/2008	7.04	571	-162	0.06	20.0	15.63	>20	260	30
	10/29/2008	6.99	175	-51	0.23	70.0	12.91	14	40	<100
	1/14/2009	8.08	607	-198	0.10	52.3	9.19	>10	125	30
	4/8/2009 ^(S)	7.16	268	12.3	0.10	39.0	8.11	>20	160	60
	7/21/2009	7.14	633	-165.1	0.07	13.0	13.34	>20	150	30
	11/11/2009	8.53	442	-177	0.07	28.0	13.01	>20	100	25
	2/15/2010	7.51	417	-193	0.04	48.9	8.53	>20	160	16
	4/20/2010	7.06	440	-126.5	0.04	24.2	10.58	>20	120	13
	8/24/2010	7.22	573	-196	0.09	24.5	15.50	>20	200	35
	12/7/2010	7.53	370	-153	0.79	26.2	11.23	20	50	18
	3/14/2011	7.02	864	-139	0.18	36.2	8.71	20	100	20
	5/24/2011	7.42	833	-186	1.21	23.8	11.51	>20	110	30
	8/16/2011	7.03	856	-204	0.00	13.5	15.35	<20	268	30
	11/8/2011	7.56	816	-202	0.30	17.4	13.16	14	120	18
	2/21/2012	7.26	479	-225	0.70	85.7	8.14	NM	100	18
	5/16/2012	7.05	483	-196	3.47	14.7	12.39	20	180	100
	8/7/2012	6.81	431	-231	1.17	0.00	16.40	20	70	40
	10/16/2012	6.76	457	-100	6.50	1.90	14.61	20	50	50
	2/13/2013	6.67	346	-112	3.98	40.0	8.03	20	70	40
	5/16/2013	6.90	489	-114	-3.93	29.0	10.64	20	90	90
8/1/2013	7.08	707	-149	0.95	12.0	17.05	0	80	30	
10/24/2013	6.74	564	-142	0.77	14.6	13.45	30	14	15	
3/25/2014	7.19	267	-104	2.87	45.6	5.70	NM	NM	NM	
6/4/2014	7.09	604	-158	1.02	15.6	10.56	20	13	16	
MW-25R	6/21/2006	6.77	620	-102	0.47	9.00	14.74	3.5	75	17
	9/13/2006	5.57	572	90.1	0.97	229	15.67	5	160	350
	11/7/2006	7.14	517	-41.2	0.25	24.0	11.33	1.5	90	100
	2/8/2007	6.80	636	-100.4	1.80	55.0	7.15	3	100	150
	6/26/2007	6.69	453	-65.8	0.35	123	14.38	3.5	40	20
	9/11/2007	6.98	355	-75.3	1.00	NM	18.93	0.3	75	15
	12/6/2007	7.15	616	30	0.60	127	6.81	2	100	110
	2/19/2008	7.32	639	-79	0.34	47.6	7.87	4.5	150	12.5
	5/6/2008	7.20	601	-80	0.21	46.0	10.95	4.5	150	15
	7/22/2008	6.55	446	-110.7	0.24	19.2	15.71	2.5	160	70
	10/29/2008	7.25	227	22.7	1.66	5.90	9.60	1	70	<10
	1/15/2009	7.22	383	21.8	0.71	8.00	5.00	0.5	120	<10
	4/7/2009 ^(S)	7.11	376	-40	0.58	8.00	6.48	2	70	7
	7/22/2009	6.77	604	-64	0.15	19.3	15.93	3	150	20
	11/11/2009	8.11	726	-44	0.82	121	10.94	2	70	20
	2/15/2010	7.08	455	-46	3.10	45.4	3.32	2	90	25
	4/20/2010	6.98	515	-56.2	1.29	117	11.04	2	50	11
	8/25/2010	7.00	666	-48	1.62	32.5	17.07	NS	NS	NS
	12/9/2010	7.15	617	-6	0.75	16.0	7.75	0.8	70	10
	3/14/2011	6.85	668	-36	1.18	9.60	6.72	1	100	<10
	5/24/2011	7.27	841	-111	0.81	234	12.01	4	160	50
	8/16/2011	6.80	528	51	0.00	<800	18.29	4	150	50
	11/8/2011	7.08	634	-72	2.61	13.6	11.23	2	140	12
	2/22/2012	7.28	578	-99	0.47	28.9	6.79	4	140	20
	5/15/2012	6.59	539	-89	1.02	34.5	13.72	3	30	29
	8/7/2012	6.46	291	-125	0.78	27.2	16.89	4	70	20
	10/15/2012	6.94	646	-68	0.59	8.90	15.15	3	100	20
	2/13/2013	6.90	653	-101	2.73	24.0	6.26	5	100	30
5/15/2013	7.30	677	-142	1.08	18.3	13.23	5	120	20	
7/31/2013	6.98	618	-127	0.96	23.9	16.29	3	160	20	
10/22/2013	6.57	629	-36	0.48	10.8	13.36	2	170	13	
3/25/2014	7.25	770	-66	2.55	37.6	3.77	NM	NM	NM	
6/2/2014	7.23	710	-129	5.50	16.8	12.64	4	125	13.5	

LEGEND

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Monitoring Report 2014

Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-27S	6/22/2006 *	7.74	933	183	1.66	>1000	16.65	0	80	<10
	9/11/2006	7.72	1,437	45	0.54	247	19.44	0	200	14
	11/7/2006	7.59	1,275	134	2.36	>1000	16.39	0	<10	20
	2/7/2007	7.15	1,078	-10.8	4.00	>1000	8.31	Sed	Sed	Sed
	6/26/2007	7.09	765	105.6	8.29	>1000	15.23	Sed	Sed	Sed
	9/11/2007	7.24	1,017	27	0.40	>1000	17.58	Sed	Sed	Sed
	12/4/2007	7.16	1,002	165	1.00	997	11.34	Sed	Sed	Sed
	2/19/2008	7.15	612.7	71.5	1.00	186	8.41	Sed	Sed	Sed
	5/7/2008	7.18	735	111.1	1.00	81.1	11.43	0	22.5	85
	7/23/2008	6.21	861	46	3.21	184	17.09	0.8	225	135
	10/30/2008	6.99	626	34.4	2.63	47.2	13.67	NMW	NMW	NMW
	1/14/2009	7.35	522	51.3	1.12	1000	10.67	0.1	200	20
	4/8/2009	8.20	486	-71	1.55	62.0	9.08	0.6	150	15
	7/21/2009	7.59	675	15	0.61	24.8	15.29	1	250	20
	11/10/2009	8.31	1,180	-5	5.12	108	15.93	NM	NM	NM
	2/14/2010	7.82	705	-84.5	3.04	107	9.37	0.3	200	20
	4/20/2010	7.41	669	-29.6	0.89	92.0	10.28	0.4	70	12
	8/24/2010	6.81	1,147	-43	0.54	>1000	15.98	0.5	70	20
	12/8/2010	7.44	1,091	-40	2.80	349	13.53	NMW	NMW	NMW
	3/14/2011	6.82	568	57.5	2.21	NM	8.52	0.1	150	18
	5/25/2011	7.81	948	-66	4.07	12.5	13.06	0	150	10
	8/16/2011	6.83	1,030	-65	0.32	144	16.66	0.6	160	18
	11/8/2011	7.03	919	-58	1.46	17.6	16.18	0.04	200	20
	2/23/2012	7.43	978	-56	2.50	31.2	10.81	NMW	NMW	NMW
	5/16/2012	6.72	955	-14	2.66	300	13.02	NM	NM	NM
	8/9/2012	6.64	969	-91	1.55	8.10	17.23	9	70	40
10/17/2012	6.78	1,120	8	3.48	9.90	14.68	NMW	NMW	NMW	
2/10/2013	6.89	1,210	71	0.31	18.3	5.01	NMW	NMW	NMW	
5/14/2013	8.00	810	-124	2.28	982	11.27	0	100	12	
8/1/2013	7.22	785	-73	2.30	40.0	16.65	0	120	12	
10/23/2013	6.25	948	105	1.08	54.3	15.61	NMW	NMW	NMW	
3/25/2014	7.36	977	38	10.79	143	7.46	NM	NM	NM	
6/4/2014	7.23	914	54	3.74	73.0	12.53	NM	NM	NM	
MW-28S	6/21/2006	7.69	687	-478	0.11	12.0	14.38	>10	82	37
	9/13/2006	5.96	831	-101.8	0.27	14.0	17.69	>20	180	90
	11/7/2006	7.22	684	-146.8	0.04	20.0	15.27	>20	200	55
	2/7/2007	6.74	650	-176.2	2.10	12.0	9.75	>20	160	22
	6/27/2007	7.01	568	-138.3	0.48	36.0	15.36	>20	180	35
	9/12/2007	7.10	576	-132.1	0.10	9.60	16.99	>20	180	50
	12/6/2007	6.86	634	-120.4	0.20	7.03	11.97	>20	170	22
	2/20/2008	7.30	492	-169	0.11	11.3	9.22	15	130	20
	5/7/2008	6.57	508	-52.4	0.19	9.13	12.25	>10	140	35
	7/23/2008	6.91	390	-65.1	0.29	9.54	15.33	>20	200	35
	10/29/2008	6.80	494	-92	1.00	339	16.50	NM	NM	NM
	1/15/2009	6.94	395	-81.5	0.05	7.96	13.88	>20	170	<100
	4/8/2009	7.59	466	-15.3	0.18	9.86	9.63	>20	115	22
	7/22/2009	6.75	392	-76.6	0.06	9.00	9.26	>20	150	40
	11/12/2009	6.93	899	-114.2	0.06	9.66	14.81	>20	160	40
	2/16/2010	8.52	830	-143	0.40	6.00	13.25	>20	70	20
	2/16/2010D	7.00	502	-132.9	0.09	9.60	8.71	20	35	16
	4/21/2010	6.99	324	-109.4	0.06	9.60	11.41	14	100	13
	8/25/2010	7.18	658	-153	0.07	9.00	15.50	>20	100	18

LEGEND

⁽¹⁾ Laboratory analyzed for alkalinity due to destroyed field kits.

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NMW = Not Measured due to insufficient purge volume.

Sed = Sediment obscured color-indicator test for field parameters.

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NOTES

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-5, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-2S, and GEI-2I were abandoned in October 2009.

¹ Lower Grab Sample

^u Upper Grab Sample

TABLE 4
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Field Data

First Semiannual
Monitoring Report 2014

Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-28S (cont.)	12/8/2010	7.21	821	-149	1.26	9.10	12.43	20	100	25
	3/15/2011	6.94	778	-136	0.11	9.80	9.26	>20	70	30
	5/25/2011	7.18	510	-206	2.11	5.60	12.88	12	110	20
	8/16/2011	6.90	809	-142	0.00	164	15.99	14	130	25
	11/9/2011	7.23	468	-133	0.42	3.20	13.80	8	130	25
	2/22/2012	7.02	535	-132	1.27	12.1	9.23	16	160	19
	5/16/2012	6.97	560	-161	1.09	23.4	15.47	10	100	40
	8/7/2012	6.82	667	-116	2.48	51.4	18.37	9	70	40
	10/16/2012	6.97	339	-144	3.27	2.10	14.81	18	11	14
	2/13/2013	7.00	790	-124	2.50	1.00	8.98	18	70	25
	5/16/2013	7.00	841	-138	2.97	1.20	12.00	16	150	35
	7/31/2013	6.90	582	-159	1.73	3.50	14.32	16	110	30
	10/24/2013	7.05	820	-155	1.77	0.00	14.20	16	180	30
3/25/2014	7.19	735	-135	7.74	9.60	8.41	NM	NM	NM	
6/4/2014	7.09	613	-162	0.37	2.10	12.47	20	12	15	
MW-28I	6/22/2006	7.88	756	-126	0.23	8.00	15.00	>10	135	28
	9/13/2006	7.59	649	-98	0.51	14.0	16.42	18	90	27
	11/7/2006	7.37	598	-146.7	0.04	13.0	14.82	>20	150	25
	2/7/2007	6.80	686	-173.3	0.20	4.90	10.70	>20	140	23
	6/27/2007	7.07	507	-170	0.18	17.0	14.90	>20	145	24
	9/12/2007	7.15	536	-104.7	0.10	5.70	16.19	>20	170	30
	12/6/2007	6.59	677	-58.2	0.26	7.44	11.96	>20	160	20
	2/20/2008	6.81	400.2	-100.2	0.01	6.00	10.31	12	135	20
	5/7/2008	6.65	593	-4.8	0.20	7.75	12.99	>10	170	35
	7/23/2008	7.34	530	-136	0.21	10.0	14.94	>20	170	23
	10/29/2008	7.28	442	-68	0.04	8.81	14.23	>20	160	<100
	1/15/2009	7.07	548	-34	0.13	7.67	11.19	>20	150	25
	4/8/2009	6.35	407	-29.1	0.05	20.0	9.97	>20	100	60
	7/22/2009	7.88	1,007	-96	0.52	4.00	13.70	20	50	50
	11/12/2009	8.43	828	-146	0.13	26.0	13.21	20	70	18
	2/16/2010	7.07	664	145.2	0.08	7.87	10.00	16	30	15
	4/21/2010	7.02	372	-112.1	0.06	9.80	12.06	12	70	14
	8/25/2010	7.25	681	-149	0.08	9.50	14.38	16	100	20
	12/8/2010	7.23	849	-151	1.53	7.38	12.79	>20	130	25
	3/14/2011	6.96	793	-134	0.18	9.17	10.53	>20	140	16
	5/25/2011	7.32	528	-206	0.44	6.80	13.65	9	120	20
	8/16/2011	7.30	960	-163	0.00	28.2	15.67	12	150	25
	11/8/2011	7.36	564	-154	1.12	0.50	13.39	9	120	18
	2/22/2012	7.05	682	-140	1.30	8.60	10.56	20	150	20
	5/16/2012	6.84	598	-110	6.18	33.4	16.41	12	90	40
	8/8/2012	6.90	625	-147	0.70	10.1	17.98	3	40	70
	10/16/2012	6.92	656	-122	4.14	6.90	14.20	8	11.5	20
	2/13/2013	7.06	713	-133	2.36	1.20	10.26	14	50	18
	5/16/2013	7.00	730	-136	3.12	4.40	11.81	12	160	25
	7/31/2013	6.94	829	-161	1.99	1.20	14.43	14	120	30
10/24/2013	7.14	738	-161	2.10	0.00	13.96	16	160	25	
3/25/2014	7.20	726	-141	2.29	8.60	9.38	NM	NM	NM	
6/4/2014	7.06	785	-156	0.62	2.50	12.75	18	12	14	

LEGEND

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NOTES

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-5, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-25, and GEI-2I were abandoned in October 2009.

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^u Upper Grab Sample

TABLE 4
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Field Data

First Semiannual
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Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-29S	6/22/2006	7.32	1,021	-32	3.63	68.0	18.45	>10	260	95
	9/14/2006	6.73	1,090	-109.8	0.36	10.0	20.63	18	310	80
	11/9/2006	6.85	775	-97.9	0.05	11.0	17.04	>10	350	65
	2/7/2007	6.53	902	-163.9	0.70	5.60	8.77	18	240	30
	6/27/2007	6.71	766	-113.8	4.03	31.0	18.48	>10	225	25
	9/11/2007	6.66	881	-13.9	0.70	9.84	21.12	>20	325	100
	12/5/2007	7.12	960	-35	0.20	8.00	13.51	>20	285	75
	2/19/2008	7.02	1,027	-94	0.21	9.92	7.87	>10	290	22
	5/7/2008	6.89	935	31.2	0.27	5.90	12.22	>20	250	70
	7/22/2008	6.61	456	-79.7	0.08	8.09	20.04	>10	300	130
	10/29/2008	6.91	798	-127	0.09	6.00	17.60	>20	250	36
	1/15/2009	6.72	564	62.8	1.14	6.78	9.00	20	200	50
	4/7/2009	7.09	578	-89.7	0.05	8.00	9.13	>20	350	70
	7/21/2009	6.47	922	-115.1	0.07	9.51	17.91	>20	250	80
	11/11/2009	7.85	837	-99	0.21	4.00	16.00	>20	220	90
	2/15/2010	7.08	596	-74	0.10	7.30	7.50	NM	70	35
	4/20/2010	6.70	728	-98.5	0.11	8.33	10.64	>20	100	50
	8/24/2010	6.69	1,008	-156	0.12	9.80	18.57	>20	100	35
	12/7/2010	7.15	935	-129	0.12	3.10	12.40	10	100	25
	3/14/2011	6.65	912	-94	0.36	8.80	5.45	10	50	25
	5/24/2011	6.77	1,090	-129	1.01	1.10	13.42	18	100	35
	8/16/2011	6.46	848	-131	0.00	15.7	19.16	16	250	80
	11/8/2011	6.63	799	-74	0.87	4.10	14.79	19	200	70
	2/21/2012	6.59	771	-85	6.10	90.9	8.13	10	200	40
	5/16/2012	6.63	936	-36	0.75	4.10	14.68	20	250	50
	8/7/2012	6.33	888	-131	0.74	0.00	18.42	14	90	70
10/17/2012	6.86	1,000	-117	1.00	4.80	16.99	14	16	32	
2/13/2013	6.78	1,030	-110	2.07	0.00	8.09	20	100	100	
5/16/2013	6.70	921	-99	8.95	0.00	12.12	20	100	70	
7/31/2013	6.75	867	-115	0.45	11.0	18.33	0	60	40	
10/24/2013	6.79	974	-127	1.69	1.10	15.34	10	300	35	
3/25/2014	6.90	1,110	-91	2.13	21.4	5.44	NM	NM	NM	
6/4/2014	6.67	1,010	-163	4.10	0.00	13.82	12	300	70	
MW-30S (abandoned)	6/21/2006	6.76	672	-180	0.14	34.0	16.81	>10	78	14
	9/13/2006	5.66	704	73.1	0.39	155	18.90	18	60	250
	11/9/2006	7.09	627	-146.1	0.01	94.0	13.46	>20	200	60
	2/7/2007	FS	FS	FS	FS	FS	FS	FS	FS	FS
	6/26/2007	6.99	458	-159.4	0.34	213	18.55	>20	225	40
	9/12/2007	7.05	696	-128.7	0.30	100	19.15	>20	230	37
	12/6/2007	7.45	871	-50	0.80	67.0	7.74	>20	200	43
	2/20/2008	7.32	825	-158	0.12	113	4.85	>20	Sed	Sed
	5/8/2008	7.49	484	-47.6	0.20	9.42	11.43	18	160	22.5
	7/22/2008	6.93	378	-128.1	0.03	11.2	19.06	>10	200	70
	10/29/2008	6.66	468	-2.3	0.05	9.65	12.93	>20	50	20
	1/15/2009	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/8/2009	6.94	956	-238	0.17	9.47	7.67	20	80	40
	7/22/2009	6.93	724	-118.2	0.06	9.50	18.26	>20	225	50
	11/11/2009	8.57	906	-151	0.14	9.00	12.18	>20	70	25
	2/15/2010	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/21/2010	6.92	633	-91.1	1.45	18.0	10.23	>20	100	30
	8/24/2010	7.00	866	-149	0.10	24.9	17.85	>20	100	25
	12/8/2010	7.19	854	-140	0.85	8.35	8.89	12	70	20
	3/16/2011	7.17	599	-81.3	0.08	9.71	7.80	13	180	30
5/24/2011	7.38	916	-185	0.56	40.2	14.82	18	180	35	
8/16/2011	6.99	783	-162	0.00	54.6	19.18	7	160	35	
11/8/2011	7.09	567	-141	0.31	10.0	13.54	8	160	20	

LEGEND

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^L Lower Grab Sample
^U Upper Grab Sample

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 Borough of Wharton, Morris County, New Jersey
 Groundwater Monitoring - MNA Field Data

First Semiannual
 Monitoring Report 2014

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Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-30S(R)	2/22/2012	7.06	647	-157	0.57	11.8	7.30	12	150	19
	5/16/2012	7.01	726	-165	5.79	9.60	13.39	10	100	40
	8/7/2012	6.77	760	-163	1.30	8.10	18.88	16	200	35
	10/17/2012	7.05	858	-149	1.65	1.90	14.26	12	11	14
	2/12/2013	FS	FS	FS	FS	FS	FS	FS	FS	FS
	5/15/2013	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/1/2013	7.02	735	-145	0.62	18.0	19.06	40	100	60
	10/24/2013	6.60	760	-129	4.69	0.90	14.64	20	18	28
	4/17/2014	7.53	935	-169	2.72	0.00	7.55	NM	NM	NM
6/4/2014	6.82	911	-147	1.42	1.30	11.61	NM	NM	NM	
MW-30I	6/21/2006	7.70	687	-194	0.33	8.00	15.22	5.5	75	19
	9/13/2006	7.52	777	-63	0.43	9.00	17.13	18	180	32
	11/8/2006	7.16	827	-144.2	0.20	42.0	14.20	>10	>1000	45
	2/7/2007	FS	FS	FS	FS	FS	FS	FS	FS	FS
	6/26/2007	6.99	486	-146.8	0.33	41.0	15.23	>20	145	25
	9/12/2007	7.08	661	-19.8	0.40	NM	17.07	>20	200	29
	12/6/2007	7.39	889	-15	1.00	136	8.28	>20	200	24
	2/19/2008	6.70	784	-149	0.13	9.98	8.55	>20	150	18
	5/7/2008	7.29	581	-142	0.08	21.0	12.28	16	140	26
	7/22/2008	73.11	552	-136	0.04	8.56	16.62	>10	180	50
	10/29/2008	7.43	715	-133	0.30	6.00	13.57	>20	165	27
	1/15/2009	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/8/2009	6.73	930	-222	0.32	5.70	8.75	20	50	32
	7/23/2009	7.06	682	-143.2	0.05	9.62	15.86	18	180	50
	11/11/2009	8.46	878	-148	0.10	20.0	12.95	14	100	18
	2/15/2010	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/21/2010	7.06	605	-120.9	0.07	7.31	9.61	14	70	22
	8/24/2010	7.10	806	-160	0.33	21.0	15.55	16	70	20
	12/7/2010	7.49	893	-140	1.08	9.80	10.82	14	70	16
	3/16/2011	7.19	620	-12	0.10	7.88	9.18	15	140	25
	5/25/2011	6.99	846	-176	0.88	42.7	12.93	12	150	35
	8/16/2011	6.88	781	-153	0.28	85.4	16.85	12	160	25
	11/8/2011	7.18	585	-143	0.29	11.3	13.82	12	70	19
	2/22/2012	6.89	648	-166	0.52	7.90	8.50	9	12	18
	5/17/2012	7.02	717	-114	5.42	1.30	13.23	10	140	20
	8/8/2012	6.93	747	-174	0.95	5.70	18.29	14	180	35
	10/17/2012	7.12	864	-120	4.20	0.00	14.29	16	100	30
	2/13/2013	6.84	830	-180	6.22	1.00	8.66	10	100	30
5/16/2013	7.30	790	-170	0.68	0.00	12.19	8	100	30	
8/1/2013	7.06	729	-142	0.75	7.50	17.74	20	100	60	
10/24/2013	6.71	741	-126	0.55	0.40	14.44	12	14	95	
4/17/2014	7.21	907	-168	9.17	2.10	8.85	NM	NM	NM	
6/4/2014	6.92	921	-164	1.01	5.10	10.65	12	125	14	

LEGEND

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 FS = Well Frozen
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NOTES

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.
 Groundwater monitoring wells MW-19, MW-19-1, MW-19-2, MW-19-3, MW-19-4, MW-19-5, MW-19-6, MW-19-7, MW-19-10, MW-19-11, GEI-2S, and GEI-2I were abandoned in October 2009.

^L Lower Grab Sample
^U Upper Grab Sample

TABLE 4
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Groundwater Monitoring - MNA Field Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-30D	6/21/2006	5.35	449	-131	0.30	10.0	14.45	2	100	30
	9/14/2006	7.00	458	-44	2.49	15.0	15.07	2.5	70	70
	11/8/2006	7.29	637	-99	0.18	33.0	13.39	5	130	17
	6/26/2007	FS	FS	FS	FS	FS	FS	FS	FS	FS
	9/12/2007	7.03	340	-95.7	0.38	69.0	14.51	3.5	115	12
	12/4/2007	7.24	401	22.6	0.80	NM	14.73	3	130	13
	12/4/2007	7.05	500	128	0.10	80.0	10.02	0.4	100	<10
	2/19/2008	6.80	487	1	0.45	16.3	9.19	1.5	130	<10
	5/7/2008	7.24	504	-62	0.32	18.0	12.87	2	125	14
	7/22/2008	7.30	328	-112.3	0.20	9.41	15.26	2.5	115	14
	10/29/2008	7.48	532	-114	0.19	12.0	12.59	6	125	13
	1/15/2009	FS	FS	FS	FS	FS	FS	FS	FS	FS
	4/8/2009	7.03	608	-197	0.18	14.0	10.87	3	80	13
	7/21/2009	7.19	450	-110	0.22	14.5	13.79	2	130	13
	11/11/2009	8.68	635	-119	0.18	9.00	12.61	2	50	11
	2/15/2010	7.25	508	-87	0.20	9.20	10.25	2	150	11
	4/21/2010	7.17	377	-56.3	0.24	23.2	10.87	2	40	10
	8/24/2010	7.41	492	-65	7.80	51.0	13.20	1	40	20
	12/7/2010	7.69	758	-89	6.18	7.27	12.20	3	50	12
	3/16/2011	5.48	584	108	0.25	8.71	11.90	2	100	50
	5/25/2011	7.33	540	-53	8.11	31.2	12.79	0.4	110	12
	8/16/2011	6.75	637	-56	7.89	70.2	15.19	2	180	14
	11/9/2011	7.50	455	-34	8.91	6.30	13.22	0.6	120	<10
2/22/2012	6.75	605	-95	0.81	11.2	9.50	1	160	12	
5/17/2012	6.98	585	67	6.42	6.00	12.37	3	140	15	
8/8/2012	7.14	509	-102	4.66	9.40	15.73	1.2	110	13	
10/16/2012	7.76	581	-128	3.82	10.2	13.63	4	30	12	
2/13/2013	7.02	528	-116	6.79	10.0	11.19	0	20	10	
5/16/2013	7.60	525	-99	5.98	2.50	12.34	2	90	13	
8/1/2013	7.71	425	-75	1.30	18.7	17.72	0	100	NM	
10/24/2013	7.29	455	-111	6.79	20.1	12.96	4	15	70	
4/17/2014	7.46	566	-116	5.47	3.00	11.37	NM	NM	NM	
6/4/2014	7.11	613	-112	10.17	6.60	10.63	10	105	10.5	
MW-31S	5/8/2008	12.47	1,499	-192	0.51	>1,000	15.74	1	225	0
	7/23/2008	6.54	2,130	-27	0.97	381	21.79	4.5	1000	400
	10/30/2008	8.13	488	34.7	0.16	7.64	12.99	NMW	NMW	NMW
	1/14/2009	10.98	567	71	0.43	15.0	5.45	0.1	200	0
	4/9/2009	8.68	540	-127.6	0.16	28.0	6.61	0.4	225	18
	7/23/2009	10.67	795	-144.1	0.24	6.22	18.68	0.5	170	NMW
	11/12/2009	9.03	1,019	-72	0.54	37.0	13.41	>20	100	NMW
	2/16/2010	11.57	670	-148	2.26	79.4	4.42	0	140	0
	4/22/2010	11.26	905	-116.6	1.65	3.98	10.38	0	200	0
	8/25/2010	8.86	900	-272	0.38	>1,000	18.80	NMW	NMW	NMW
	12/9/2010	7.46	959	13.7	0.65	3.91	9.10	6	125	16
	3/17/2011	9.48	497	32	0.37	2.77	5.37	7	90	0
	5/26/2011	9.70	922	-211	3.00	15.2	12.43	0.2	140	0
	8/16/2011	7.04	1,070	-133	0.00	6.90	19.35	0	150	>100
	11/9/2011 *	11.05	1,040	-237	1.51	2.80	13.81	0	130	>100
	2/23/2012	11.46	1,060	-246	1.07	0.00	5.00	0	130	0
	5/14/2012	9.45	700	-199	0.85	12.9	13.16	NM	NM	NM
	8/7/2012	9.87	665	-148	1.23	0.30	21.32	0	70	0
	10/16/2012	7.71	1,280	-171	0.29	3.20	16.46	0	70	0
	2/10/2013	6.69	1,190	-100	2.01	3.10	4.11	0	20	80
	5/14/2013	9.50	698	-189	5.67	32.0	10.62	0	100	<10
	7/30/2013	9.55	749	-208	3.26	4.60	18.99	0	140	0
	10/22/2013	5.89	564	22	8.65	5.50	21.02	NMW	NMW	NMW
3/25/2014	7.52	811	-100	9.14	10.2	3.93	NM	NM	NM	
6/3/2014	10.11	650	-181	3.10	20.4	17.55	0	70	0	

LEGEND

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^L Lower Grab Sample

^U Upper Grab Sample

TABLE 4
 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Groundwater Monitoring - MNA Field Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-32S	5/8/2008	6.90	1,105	-86	0.33	109	12.11	NMW	NMW	NMW
	7/23/2008	6.47	1,169	-149.6	0.07	15.9	22.56	NMW	NMW	NMW
	10/30/2008	6.68	799	-20.4	0.41	14.0	14.72	NMW	NMW	NMW
	1/15/2009	6.94	665	42.1	0.32	8.00	5.60	NMW	NMW	NMW
	4/8/2009	6.61	659	-132.8	0.29	12.0	6.62	>20	250	80
	7/23/2009	6.63	952	-111.4	0.19	5.17	18.70	>20	500	100
	11/12/2009	7.77	1,276	-53	0.30	169	13.04	NMW	NMW	NMW
	2/16/2010	6.68	687	-82	0.45	10.3	3.89	>20	200	30
	4/22/2010	6.64	825	-106.0	0.27	5.38	10.50	>20	200	30
	8/25/2010	6.37	974	-134.0	0.56	221	19.23	NMW	NMW	NMW
	12/9/2010	6.99	837	-85.7	0.32	17.7	8.63	>20	225	35
	3/17/2011	6.92	734	8.6	0.45	8.40	5.30	>20	250	35
	5/25/2011	6.77	1,230	-153.0	3.23	12.2	12.92	12	350	70
	8/16/2011	6.60	1,190	-144.0	0.00	45.5	19.58	7	250	50
	11/9/2011	6.26	792	-24.0	0.98	2.60	13.16	12	400	70
	2/23/2012	6.81	1,240	-100.0	1.35	21.0	4.83	20	400	100
	5/14/2012	6.88	1,030	-84.0	0.67	17.1	14.40	NM	NM	NM
	8/7/2012	6.71	979	-99.0	1.37	4.80	22.28	NM	NM	NM
	10/16/2012	6.82	1,180	-109.0	2.09	35.1	17.60	7	100	100
	2/10/2013	6.88	1,200	-69.0	5.61	10.1	3.01	12	70	100
5/14/2013	6.70	948	-90.0	1.78	18.2	11.81	20	70	50	
7/30/2013	6.94	978	-111.0	5.86	114	26.27	20	1000	100	
10/22/2013	6.54	968	-34.0	5.15	24.6	20.35	NMW	NMW	NMW	
3/25/2014	6.91	1,180	-79.0	9.00	19.3	4.20	NM	NM	NM	
6/3/2014	6.97	1,060	-125.0	5.20	10.1	15.90	NM	NM	NM	
MW-33S	5/8/2008	7.29	650	-74	0.77	682	12.98	18	180	70
	7/23/2008	6.06	616	NM	2.55	148	26.40	>20	310	200
	10/30/2008	6.44	607	5.7	0.21	14.0	13.10	NMW	NMW	NMW
	1/15/2009	5.20	567	168.5	0.37	38.0	5.29	>20	225	60
	4/9/2009	6.79	577	-39.4	0.61	38.6	5.86	>20	350	80
	7/23/2009	6.56	1,226	-82.7	0.18	16.9	17.63	>20	500	150
	11/12/2009	7.79	1,381	-46	2.96	314	14.13	>20	400	35
	2/16/2010	6.79	776	-96.7	0.93	52.3	4.20	>20	300	25
	4/22/2010	6.69	1,055	-82.1	3.19	32.9	9.50	>20	300	50
	8/25/2010	6.36	910	-80	0.16	30.9	18.66	NMW	NMW	NMW
	12/9/2010	7.01	735	86.5	0.95	33.6	9.29	10	250	30
	3/17/2011	7.04	609	13.8	1.01	28.1	5.28	9	225	35
	5/26/2011	6.98	1,130	-121	2.44	29.7	11.97	16	350	70
	8/16/2011	6.64	1,330	-84	0.00	59.8	18.31	18	300	50
	11/9/2011	6.69	623	-31	1.23	17.8	13.09	16	350	70
	2/23/2012	7.30	761	-70	2.24	10.2	4.94	12	150	100
	5/14/2012	6.60	877	-75	0.69	19.2	14.50	NM	NM	NM
	8/7/2012	6.16	608	-50	1.97	36.5	20.69	20	100	120
	10/16/2012	6.32	785	-58	0.80	7.60	17.09	20	100	110
	2/10/2013	6.73	803	-39	4.29	4.10	3.21	12	70	100
5/14/2013	6.70	792	-89	9.21	0.00	10.98	20	100	100	
7/30/2013	6.52	731	-69	7.00	96.1	19.03	16	250	70	
10/22/2013	4.86	617	-27	1.99	13.5	16.00	4	100	40	
3/26/2014	6.81	691	-24	9.39	19.3	3.93	NM	NM	NM	
6/3/2014	7.58	645	-117	7.09	43.8	14.99	NM	NM	NM	

LEGEND

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NOTES

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 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Groundwater Monitoring - MNA Field Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters		pH	Conductivity	ORP	Dissolved Oxygen	Turbidity	Temperature	Ferrous Iron	Alkalinity	CO2
Units		S.U.	uS/cm	mV	mg/L	NTU	°C	mg/L	mg/L	mg/L
MW-34S	5/6/2008	7.01	794	-111	0.51	7.00	14.84	NMW	NMW	NMW
	7/23/2008	6.40	1,240	-136.3	0.15	12.1	20.19	NMW	NMW	NMW
	10/30/2008	6.62	686	50.7	0.48	13.5	14.83	NMW	NMW	NMW
	1/15/2009	7.33	557	23.9	0.27	9.00	5.90	NMW	NMW	NMW
	4/8/2009	7.32	488	-82.5	0.44	10.0	6.57	8	300	30
	7/23/2009	6.51	761	-89	0.36	6.08	17.40	NMW	NMW	NMW
	11/12/2009	7.66	966	-30	2.72	31.0	13.15	NMW	NMW	NMW
	2/16/2010	6.74	500	-58	0.53	13.1	4.31	20	70	20
	4/22/2010	6.58	576	-74.5	0.39	26.7	9.57	>20	250	35
	8/25/2010	6.16	701	-70	1.00	32.7	18.57	NMW	NMW	NMW
	12/9/2010	6.87	672	-6.4	0.42	5.38	8.97	0.2	120	16
	3/17/2011	6.64	522	13.2	0.86	4.87	5.43	0.1	160	16
	5/26/2011	6.76	957	-131	3.20	1.00	12.35	7	300	50
	8/16/2011	6.58	970	-99	0.00	26.3	19.59	4.5	250	40
	11/9/2011	6.31	638	-32	1.40	157	13.14	9	400	35
	2/23/2012	6.80	1,102	-94	1.39	0.00	4.80	12	350	40
	5/14/2012	6.60	1,070	-79	0.94	5.80	13.89	NM	NM	NM
	8/7/2012	6.56	759	-56	0.99	0.00	23.83	20	50	100
	10/16/2012	6.56	909	-65	3.44	3.20	17.71	3	100	100
	2/10/2013	6.66	1,010	-39	4.99	4.50	3.20	1	100	70
5/14/2013	6.70	895	-90	232.00	0.00	11.61	0	35	25	
7/30/2013	6.47	1,400	-96	9.90	4.10	22.53	8	380	100	
10/22/2013	6.37	869	11	5.32	2.40	17.75	NMW	NMW	NMW	
3/25/2014	6.79	1,100	-60	10.82	13.5	3.75	NM	NM	NM	
6/3/2014	6.92	895	-115	6.91	2.20	13.61	4	350	100	
MW-35S	5/6/2008	6.78	917	-56	0.37	>1,000	11.51	>20	310	70
	7/23/2008	6.35	736	-55	1.50	65.0	19.23	>20	260	50
	10/30/2008	6.87	848	-30.2	1.35	38.5	14.18	NMW	NMW	NMW
	1/15/2009	7.28	607	3.3	0.15	59.0	5.81	>20	225	30
	4/8/2009	7.36	683	-121.9	0.21	53.0	6.40	>20	300	30
	7/23/2009	6.65	896	-108.2	0.20	22.2	17.49	>20	275	80
	11/12/2009	8.14	1,109	-56	3.69	29.0	13.15	>20	350	30
	2/16/2010	6.72	556	-72	0.40	141	4.09	>20	200	25
	4/22/2010	6.48	710	-59.5	0.24	46.5	10.45	>20	250	30
	8/16/2011	6.51	1,006	-93	0.22	840	18.58	NMW	NMW	NMW
	12/9/2010	6.85	557	-59.8	0.37	27.1	8.72	>20	200	22
	3/17/2011	6.71	542	15.3	0.73	11.4	5.71	>20	160	25
	5/26/2011	6.58	1,050	-61	3.90	30.4	12.91	>20	160	50
	8/16/2011	6.60	1,060	-93	0.00	66.1	19.29	>20	180	50
	11/9/2011	6.65	503	-42	1.03	24.5	12.91	16	160	25
	2/23/2012	6.71	785	-100	1.45	28.1	5.12	20	180	40
	5/14/2012	6.62	849	-114	0.79	78.1	14.02	NM	NM	NM
	8/7/2012	6.35	860	-90	1.46	14.3	21.62	11	70	65
	10/16/2012	6.36	890	-93	1.49	15.5	21.30	20	70	40
	2/10/2013	6.36	840	-29	5.29	6.40	4.00	15	100	40
5/14/2013	6.80	849	-98	1.68	18.3	11.68	20	60	50	
7/30/2013	6.71	751	-72	7.36	30.6	22.87	18	700	100	
10/22/2013	6.44	914	-40	4.39	9.50	17.56	20	250	120	
3/25/2014	6.84	914	-84	7.16	57.9	4.62	NM	NM	NM	
6/3/2014	6.84	828	-93	9.59	17.5	12.12	20	180	70	
GEI-2S	12/4/2007	6.47	586	-29.8	0.60	15.0	15.28	0	150	30
	5/7/2008	6.29	669	118.4	3.71	7.50	9.97	0	50	17
	7/22/2008	6.73	1,054	69	1.69	10.0	13.45	0.6	175	25
	10/29/2008	6.70	313	42.4	0.92	7.42	12.19	0.1	140	12
	1/15/2009	7.40	898	67	2.78	9.50	10.45	0.1	150	27
	4/8/2009	6.83	535	-13	3.95	5.32	8.97	0	60	16
	7/21/2009	NMW	NMW	NMW	NMW	NMW	NMW	NMW	NMW	NMW

LEGEND

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^U Upper Grab Sample

TABLE 5
 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Surface Water Monitoring - BTEX and DEHP Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-D-1	4/8/2005	<0.20	<0.20	<0.20	<0.60	<1.0
	7/26/2005	<0.20	<0.20	0.5 J	<0.60	<1.0
	10/26/2005	<0.20	<0.20	<0.20	<0.60	<1.0
	2/27/2006	<0.20	<0.20	<0.20	<0.60	2.0 J
	6/19/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	9/11/2006	<0.20	<0.20	0.2 J	<0.60	11 J
	11/9/2006	<0.20	<0.20	<0.20	<0.60	<0.90
	2/7/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	7.3
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	4.9	<1.2
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.3
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	1/12/2009	<0.90	<0.80	<0.80	<0.90	12
	4/6/2009	<0.90	<0.80	<0.80	<0.90	2.0 J
	7/21/2009	<0.90	<0.80	<0.80	<0.90	1.0 J
	11/10/2009	<0.90	<0.80	<0.80	<0.90	1.0 J
	2/13/2010	<0.50	<0.50	<0.50	<1.5	51
	4/19/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	15
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/7/2010	<0.50	<0.50	<0.50	<1.5	1.1
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.99
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	5.9
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	11/7/2011 ^D	<0.50	<0.50	<0.50	<1.5	<0.95
	2/23/2012	<0.50	<0.50	<0.50	<1.5	<0.95
5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	3.4	
8/10/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
10/14/2012	<0.50	<0.50	<0.50	<1.5	1.0	
2/11/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	9.0 U	
10/21/2013	<0.50	<0.50	0.9	<1.5	6.9	
3/26/2014	<0.50	<0.50	<0.50	<1.5	<1.0	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

LEGEND

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Surface Water Quality Standard Reference: N.J.A.C 7:9B October 2006.

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Concentration exceeds NJSWQC

TABLE 5
Dayco Corporation / L.E. Carpenter Superfund Site
Borough of Wharton, Morris County, New Jersey
Surface Water Monitoring - BTEX and DEHP Data

First Semiannual
Monitoring Report 2014

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-D-2	4/8/2005	NS	NS	NS	NS	NS
	7/26/2005	<0.20	0.5 J	<0.20	6.1	38
	10/26/2005	<0.20	0.6 J	<0.20	2.0 J	<1.0
	2/27/2006	<0.20	0.8 J	<0.20	2.7 J	27
	6/19/2006	<0.20	<0.20	<0.20	<0.60	1.0 J
	6/19/2006 ^D	<0.20	<0.20	<0.20	<0.60	2.0 J
	9/11/2006	<0.20	<0.20	<0.20	<0.60	2.0 J
	11/9/2006	<0.20	<0.20	<0.20	<0.60	1.0 J
	2/7/2007	<1.0	<1.0	<5.0	<3.0	11
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	3.0
	12/4/2007	<1.0	<1.0	<5.0	<3.0	1.5
	2/18/2008	<1.0	<1.0	<5.0	4.4	<1.1
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.2
	7/21/2008	<1.0	<1.0	<5.0	<3.0	7.1
	10/27/2008	<0.20	<0.20	<0.20	<0.60	13
	1/12/2009	<0.90	<0.80	<0.80	<0.90	230
	4/6/2009	<0.90	<0.80	<0.80	<0.90	1.0 J
	4/6/2009 ^D	<0.90	<0.80	<0.80	<0.90	1.0 J
	7/21/2009	<0.90	<0.80	<0.80	<0.90	4.0 J
	11/10/2009	<0.90	<0.80	<0.80	<0.90	2.0 J
	11/10/2009 ^D	<0.90	<0.80	<0.80	<0.90	5.0 J
	2/13/2010	<0.50	<0.50	<0.50	<1.5	18
	4/19/2010	<0.50	0.75	<0.50	1.6	<0.95
	4/19/2010 ^D	<0.50	0.78	<0.50	1.7	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	23
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/7/2010	<0.50	<0.50	<0.50	<1.5	3.6
	12/7/2010 ^D	<0.50	<0.50	<0.50	<1.5	5.0
	3/14/2011	<0.50	<0.50	<0.50	<1.5	1.8
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011 ^D	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	8.2
11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95	
2/23/2012	<0.50	<0.50	<0.50	<1.5	<0.95	
2/23/2012 ^D	<0.50	<0.50	<0.50	<1.5	<0.97	
5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	1.1	
5/14/2012 ^D	<0.50	<0.50	<0.50	<1.5	3.4	
8/10/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
8/10/2012 ^D	<0.50	<0.50	<0.50	<1.5	<1.0	
10/14/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
10/14/2012 ^D	<0.50	<0.50	<0.50	<1.5	2.3	
2/11/2013	<0.50	<0.50	<0.50	<1.5	3.6	
2/11/2013 ^D	<0.50	<0.50	<0.50	<1.5	3.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013 ^D	<0.50	<0.50	<0.50	<1.5	13 U	
10/21/2013	<0.50	<0.50	<0.50	<1.5	10 J	
10/21/2013 ^D	<0.50	<0.50	<0.50	<1.5	1.4 J	

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Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-D-2 (cont.)	3/26/2014	<0.50	<0.50	<0.50	<1.5	3.4
	6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0
	6/2/2014 ^D	<0.50	<0.50	<0.50	<1.5	<1.0
SW-D-3	4/8/2005	<0.20	21	<0.20	79	2.0 J
	7/26/2005	<0.20	<0.20	<0.20	1.1 J	7.0 J
	10/26/2005	<0.20	0.40 J	<0.20	1.4 J	<1.0
	2/27/2006	<0.20	1.1	<0.20	3.9	6.0 J
	6/19/2006	<0.20	<0.20	<0.20	<0.60	3.0 J
	9/11/2006	<0.20	<0.20	<0.20	<0.60	1.0 J
	9/11/2006 ^D	<0.20	<0.20	<0.20	<0.60	3.0 J
	11/9/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	2/7/2007	<1.0	<1.0	<5.0	<3.0	3.3
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	1.6
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.1
	2/18/2008	<1.0	<1.0	<5.0	3.8	<1.0
	2/18/2008 ^D	<1.0	<1.0	<5.0	3.8	<1.0
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.2
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	1/12/2009	<0.90	<0.80	<0.80	<0.90	14
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	7/21/2009	<0.90	<0.80	<0.80	<0.90	1.0 J
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	2/13/2010	<0.50	<0.50	<0.50	<1.5	3.0
	4/19/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	2.3
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/7/2010	<0.50	<0.50	<0.50	<1.5	1.3
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	1.0
	8/16/2011	<0.50	<0.50	<0.50	<1.5	5.4
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
2/23/2012	<0.50	<0.50	<0.50	<1.5	<0.98	
5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	<1.0	
8/10/2012	<0.50	<0.50	<0.50	<1.5	3.2	
10/14/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
2/11/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
3/26/2014	<0.50	<0.50	<0.50	<1.5	2.6	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

LEGEND

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Concentration exceeds NJSWQC

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 (Dover) - Washington Pond outlet downstream to Rt. 46 bridge Cat 1 FW2-TM(C1)
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Borough of Wharton, Morris County, New Jersey
Surface Water Monitoring - BTEX and DEHP Data

First Semiannual
Monitoring Report 2014

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-D-4	6/20/2006	<0.20	<0.20	0.4 J	<0.60	3.0 J
	9/11/2006	<0.20	<0.20	<0.20	<0.60	2.0 J
	11/9/2006	<0.20	0.4 J	<0.20	0.6 J	<0.90
	2/7/2007	<1.0	2.0	<5.0	3.8	3.3
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	1.0
	12/4/2007	<1.0	1.4	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	4.1	<1.1
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	7/21/2008	<1.0	<1.0	<5.0	<3.0	9.2
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	1/12/2009	<0.90	21	<0.80	20	29
	4/6/2009	<0.90	<0.80	<0.80	<0.90	2.0 J
	7/20/2009	<0.90	<0.80	<0.80	<0.90	2.0 J
	7/20/2009 ^D	<0.90	<0.80	<0.80	<0.90	2.0 J
	11/10/2009	<0.90	<0.80	<0.80	<0.90	1.0 J
	2/13/2010	<0.50	0.96	<0.50	<1.5	150
	2/13/2010 ^D	<0.50	0.91	<0.50	<1.5	43
	4/19/2010	<0.50	15	<0.50	48	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	24
	8/23/2010 ^D	<0.50	<0.50	<0.50	<1.5	17
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	9/9/2010 ^{D (5)}	<0.50	<0.50	<0.50	<1.5	NS
	12/6/2010	<0.50	<0.50	<0.50	<1.5	1.9
	3/14/2011	<0.50	2.0	<0.50	4.4	<0.98
	3/14/2011 ^D	<0.50	2.1	<0.50	4.6	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	1.1
	8/16/2011	<0.50	<0.50	<0.50	<1.5	9.1
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	2/23/2012	<0.50	<0.50	<0.50	<1.5	5.5
5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	3.7	
8/10/2012	<0.50	<0.50	<0.50	<1.5	2.8	
10/14/2012	<0.50	<0.50	<0.50	<1.5	1.1	
2/11/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	1.4	
3/26/2014	<0.50	<0.50	<0.50	<1.5	1.2	
3/26/2014 ^D	<0.50	<0.50	<0.50	<1.5	<1.0	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

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Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-D-5	9/11/2006	<0.20	<0.20	<0.20	<0.60	10 J
	11/6/2006	<0.20	0.2 J	<0.20	0.8 J	<0.90
	2/7/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	3.4
	12/3/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	12/3/2007 ^D	<1.0	<1.0	<5.0	<3.0	<1.1
	2/18/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.2
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	4.0 J
	1/12/2009	<0.90	<0.80	<0.80	<0.90	2.0 J
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	7/20/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	2/13/2010	<0.50	0.59	<0.50	<1.5	<0.94
	4/19/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	4.6
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/6/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95
11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95	
2/23/2012	<0.50	<0.50	<0.50	<1.5	<0.96	
5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	<1.0	
8/10/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
10/14/2012	<0.50	<0.50	<0.50	<1.5	5.6	
2/10/2013	<0.50	<0.50	<0.50	<1.5	2.2	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	<1.0	

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Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
DRC-2	9/11/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	11/6/2006	<0.20	0.50 J	<0.20	1.9 J	<0.90
	2/6/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	12/3/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.2
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	1/12/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	7/20/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	2/13/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	4/19/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	<0.98
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/6/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	2/23/2012	<0.50	<0.50	<0.50	<1.5	<0.95
	5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	1.1
	8/7/2012	<0.50	<0.50	<0.50	<1.5	<1.0
10/14/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
2/10/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	1.9	
3/24/2014	<0.50	<0.50	<0.50	<1.5	<1.0	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

LEGEND

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TABLE 5
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Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii (4)(6)		0.5	0.5	0.5	1.5	0.95
SW-R-1	4/20/2005 ⁽¹⁾	<0.20	17	0.8 J	99	2.0 J
	7/25/2005	<0.20	<0.20	<0.20	<0.60	1.0 J
	10/27/2005	<0.20	<0.20	<0.20	<0.60	<1.0
	2/27/2006	<0.20	0.3 J	<0.20	1.4 J	<0.90
	6/19/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	9/11/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	11/6/2006	<0.20	0.2 J	<0.20	1.1 J	<1.0
	2/6/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	1.3
	12/3/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	5/5/2008	<1.0	1.2	<5.0	5.9	<1.2
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	1/12/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	7/20/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	2/13/2010	<0.50	0.55	<0.50	2.8	<0.95
	4/19/2010	<0.50	0.64	<0.50	2.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/6/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	2/23/2012	<0.50	0.73	<0.50	4.6	<0.95
	5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	<1.0
8/7/2012	<0.50	<0.50	<0.50	<1.5	1.7	
10/14/2012	<0.50	<0.50	<0.50	<1.5	1.1	
2/10/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
3/24/2014	<0.50	<0.50	<0.50	<1.5	1.0	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

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Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-R-2	4/20/2005	NS	NS	NS	NS	NS
	7/25/2005	<0.20	<0.20	<0.20	<0.60	<0.90
	10/27/2005	<0.20	<0.20	<0.20	<0.60	<0.90
	2/27/2006	<0.20	0.50 J	<0.20	2.3 J	<1.0
	6/19/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	9/11/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	11/6/2006	<0.20	<0.20	<0.20	<0.60	<0.90
	11/6/2006 ^D	<0.20	<0.20	<0.20	<0.60	<0.90
	2/6/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	1.7
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	1/12/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	7/20/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	2/13/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	4/19/2010	<0.50	0.5	<0.50	2.0	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/6/2010	<0.50	<0.50	<0.50	<1.5	<0.96
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	2/23/2012	<0.50	<0.50	<0.50	<1.5	2.5
5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	<1.0	
8/7/2012	<0.50	<0.50	<0.50	<1.5	2.5	
10/14/2012	<0.50	<0.50	<0.50	<1.5	1.8	
2/10/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
3/24/2014	<0.50	<0.50	<0.50	<1.5	<1.1	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

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Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-R-3	4/20/2005	NS	NS	NS	NS	NS
	7/25/2005	<0.20	<0.20	<0.20	<0.60	<0.90
	2/27/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	6/19/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	9/11/2006	<0.20	<0.20	<0.20	<0.60	2.0 J
	11/6/2006	<0.20	<0.20	<0.20	<0.60	<0.90
	2/6/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	3.0
	6/25/2007 ^D	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	3.9
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	5/5/2008 ^D	<1.0	<1.0	<5.0	<3.0	<1.2
	7/21/2008	<1.0	<1.0	<5.0	<3.0	150
	7/21/2008	NS	NS	NS	NS	26
	8/15/2008 ⁽²⁾	<1.0	<1.0	<5.0	<3.0	<1.0
	8/15/2008 ⁽³⁾	<0.20	<0.20	<0.20	<0.60	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	10/27/2008 ^D	<0.20	<0.20	<0.20	<0.60	<1.0
	1/12/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	1/12/2009 ^D	<0.90	<0.80	<0.80	<0.90	<1.0
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	7/20/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	2/13/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	4/19/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/6/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95	
11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95	
2/23/2012	<0.50	<0.50	<0.50	<1.5	1.6	
5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	<1.0	
8/7/2012	<0.50	<0.50	<0.50	<1.5	3.3	
10/14/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
2/10/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	1.4 U	
10/21/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
3/24/2014	<0.50	<0.50	<0.50	<1.5	<1.0	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

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Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-R-4	4/20/2005	NS	NS	NS	NS	NS
	7/25/2005	<0.20	<0.20	<0.20	<0.60	<0.90
	2/27/2006	<0.20	<0.20	<0.20	<0.60	<0.90
	6/19/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	9/11/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	11/6/2006	<0.20	<0.20	<0.20	<0.60	<0.90
	2/6/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	19
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	7/21/2008 ^D	<1.0	<1.0	<5.0	<3.0	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<1.0
	1/12/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	7/20/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	2/13/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	4/19/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/6/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	2/23/2012	<0.50	<0.50	<0.50	<1.5	<0.95
	5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	<1.0
8/10/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
10/14/2012	<0.50	<0.50	<0.50	<1.5	<1.0	
2/10/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/29/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
3/24/2014	<0.50	<0.50	<0.50	<1.5	130	
4/17/2014	--	--	--	--	<1.0	
6/2/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

LEGEND

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Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/L	ug/L	ug/L	ug/L	ug/L
APPLICABLE BACKGROUND CONCENTRATION (SW-R-6). CONCENTRATION AT OR BELOW DETECTION LIMIT. N.J.A.C. 7:9B-1.5 (d)6iii ⁽⁴⁾⁽⁶⁾		0.5	0.5	0.5	1.5	0.95
SW-R-6	2/27/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	6/19/2006	<0.20	<0.20	<0.20	<0.60	<1.0
	9/11/2006	<0.20	<0.20	<0.20	<0.60	<0.90
	11/6/2006	<0.20	<0.20	<0.20	<0.60	<0.90
	2/6/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	6/25/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	9/10/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	12/4/2007	<1.0	<1.0	<5.0	<3.0	<1.0
	2/18/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	5/5/2008	<1.0	<1.0	<5.0	<3.0	<1.1
	7/21/2008	<1.0	<1.0	<5.0	<3.0	<1.0
	10/27/2008	<0.20	<0.20	<0.20	<0.60	<0.90
	1/12/2009	<0.90	<0.80	<0.80	<0.90	<1.0
	4/6/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	7/20/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	11/10/2009	<0.90	<0.80	<0.80	<0.90	<0.90
	2/13/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	4/19/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	8/23/2010	<0.50	<0.50	<0.50	<1.5	<0.99
	9/9/2010 ⁽⁵⁾	<0.50	<0.50	<0.50	<1.5	NS
	12/7/2010	<0.50	<0.50	<0.50	<1.5	<0.95
	3/14/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	5/23/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	8/16/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	11/7/2011	<0.50	<0.50	<0.50	<1.5	<0.95
	2/23/2012	<0.50	<0.50	<0.50	<1.5	<0.98
	5/14/2012 ⁽⁷⁾	<0.50	<0.50	<0.50	<1.5	<1.0
8/10/2012	<0.50	<0.50	<0.50	<1.5	1.9	
10/14/2012	<0.50	<0.50	<0.50	<1.5	4.2	
10/14/2012 ⁽⁸⁾	--	--	--	--	<1.0	
2/10/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
5/13/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
7/30/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
10/21/2013	<0.50	<0.50	<0.50	<1.5	<1.0	
3/24/2014	<0.50	<0.50	<0.50	<1.5	<1.0	
6/4/2014	<0.50	<0.50	<0.50	<1.5	<1.0	

LEGEND

ug/L = micrograms per liter
FS = Sample Frozen in Transit
NS = Not Sampled
D = Duplicate sample

Bold concentrations are above reporting limits but below criteria.

Surface Water Quality Standard Reference: N.J.A.C 7:9B October 2006.

(Dover) - Washington Pond outlet downstream to Rt. 46 bridge Cat 1 FW2-TM(C1)

J: Value estimated due to method exceeding QC limits.

U: Analyte was detected in a method blank.

PQL: Practical Quantitation Limit

Concentration exceeds NJSWQC

NOTES

* = Detection limit is elevated due to interference from other parameter detections. Laboratory will be contacted to lower benzene detection limit to be below the NJSWQS.

(1) One surface water sample was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Due to bottle mislabeling and laboratory error, each of the five river sample bottles (R-1 through R-5) were analyzed individually instead of as a whole set. The highest concentration detected in any of the five laboratory results for the river sample are listed under SW-R-1 for April 2005.

(2) Due to believed lab contamination of the original sample, surface water location SW-R-3 was resampled and the sample aliquot was split between two labs. These results are from Environmental Science Corporation (ESC).

(3) Due to believed lab contamination of the original sample, surface water location SW-R-3 was resampled and the sample aliquot was split between two labs. These results are from Lancaster Laboratories.

(4) Per NJDEP request, along with a change in laboratories, the detection limits for site COCs were lowered.

(5) Due to laboratory error, original BTEX samples were analyzed outside the holding time. Surface water locations were resampled and analyzed within the appropriate holding times.

(6) New Jersey Department of Environmental Protection Surface Water Quality Standards (NJSWQS) from NJAC 7:9B as amended April 4, 2011.

(7) Reanalysis for DEHP. DEHP was detected in a field blank during 2Q12, affecting DRC-02.

(8) Reanalysis for DEHP. DEHP was detected in background surface water sample SW-R-6.

TABLE 6
 Dayco Corporation / L.E. Carpenter Superfund Site
 Borough of Wharton, Morris County, New Jersey
 Temporary Well (TW) Groundwater Monitoring - BTEX and DEHP Data

First Semiannual
 Monitoring Report 2014

Analytical Parameters		Benzene	Ethylbenzene	Toluene	Total Xylenes	bis-2-Ethylhexyl-phthalate (DEHP)
Units		ug/l	ug/l	ug/l	ug/l	ug/l
Solubility Limit ⁽¹⁾		1,700,000	152,000	515,000	175,000	334
Practical Quantitation Limit (PQL) ⁽¹⁾		1	2	1	2	3
NJGWQS Class IIA ⁽¹⁾		0.2	700	600	1,000	2
Higher of NJGWQS and PQL ⁽¹⁾		1	700	600	1,000	3
TW-35-1	7/31/2013	<0.50	<0.50	<0.50	<1.5	9.9 U
TW-35-2	8/1/2013	NMW	NMW	NMW	NMW	NMW
TW-35-3	8/1/2013	NMW	NMW	NMW	NMW	NMW
TW-35-4	8/1/2013	NMW	NMW	NMW	NMW	NMW
TW-35-5	7/31/2013	29	22,000	3,200	130,000	150,000 U
TW-35-6 ⁽³⁾	8/1/2013 ¹	<0.50	0.52	<0.50	13	790 U
TW-35-6F ⁽³⁾⁽⁴⁾	8/1/2013 ¹	<0.50	9.5	<0.50	14	1.3 U
TW-35-6 ⁽³⁾	8/1/2013 ²	<0.50	<0.50	<0.50	22	380
TW-35-6F ⁽³⁾⁽⁴⁾	8/1/2013 ²	<0.50	14	<0.50	19	27 U
TW-35-7	8/1/2013	<0.50	<0.50	<0.50	15	NS
TW-35-8 ⁽³⁾	8/1/2013 ¹	<0.50	<0.50	<0.50	130	12 U
TW-35-8 ⁽³⁾	8/1/2013 ²	<0.50	200	<0.50	250	12 U

LEGEND

ug/L = micrograms per liter
 NS = Not Sampled
 NMW = Not Measured due to insufficient purge volume.
 D = Duplicate sample
 MDL: Method Detection Limit
 PQL: Practical Quantitation Limit
Bold concentrations are above reporting limits but below criteria.

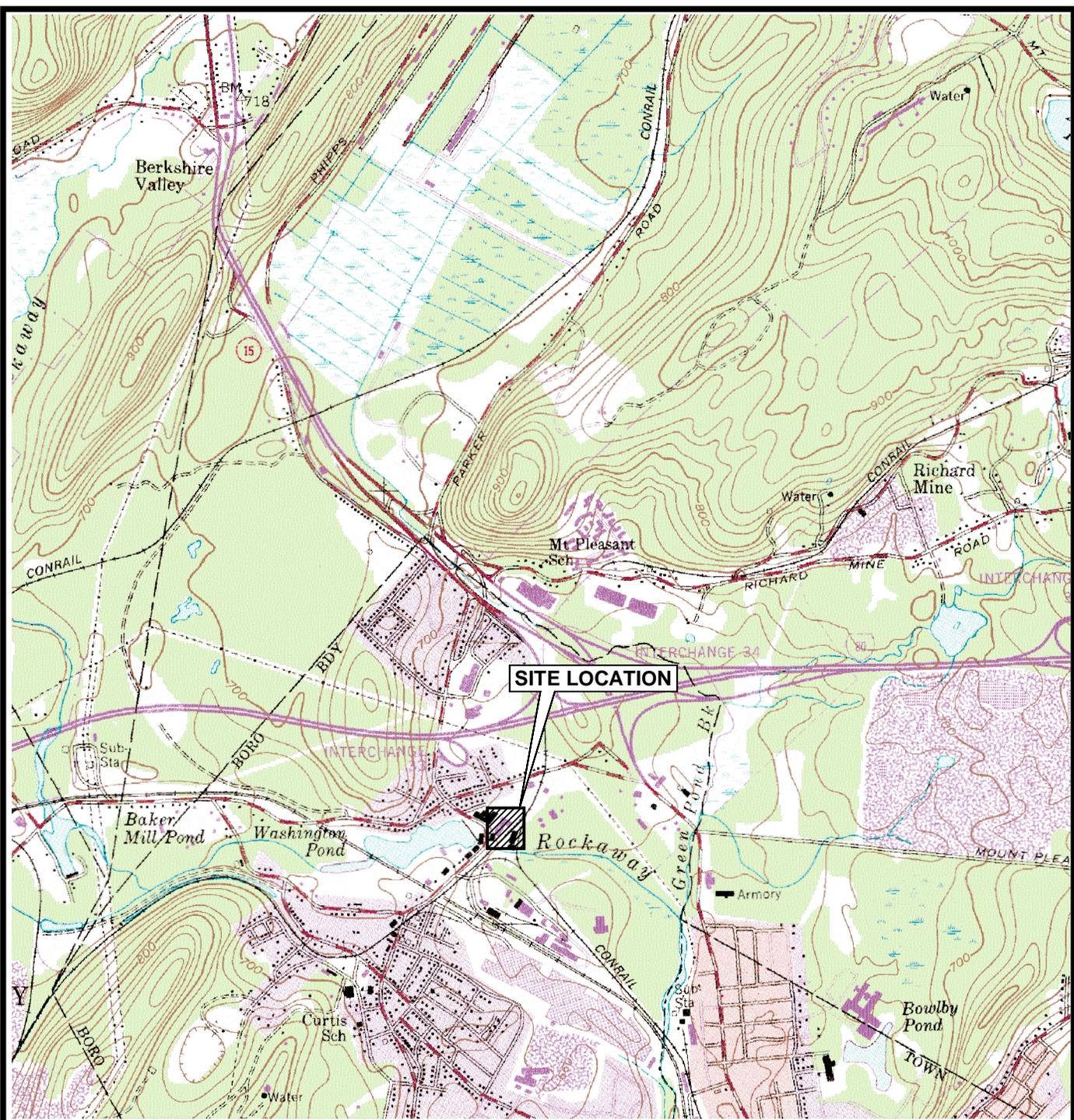
Concentration exceeds NJGWQS

NOTES

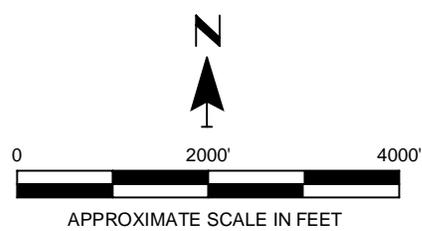
- (1) New Jersey Department of Environmental Protection Ground Water Quality Standards (NJGWQS) from NJAC 7:9C GWQS last amended July 22, 2010.
- (2) Temporary wells were driven in between 1 and 3 feet below ground surface. Wells were sampled after equilibration with the surrounding groundwater and removed.
- (3) Multiple samples taken from these wells. First sampling indicated with a "1"; second sampling indicated with a "2".
- (4) Samples were taken at the same time as their counterparts, only bottles for VOCs and DEHP were field-filtered.

Figures

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 Attached Xrefs: Dover New Jersey, FIG01 Site Location Map
 Attached Images: Layout:



NEW JERSEY
 QUADRANGLE LOCATION



APPROXIMATE SCALE IN FEET

MAP SOURCE

BASE MAP DEVELOPED FROM THE DOVER, NEW JERSEY 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP, DATED 1954, PHOTOREVISED 1981.

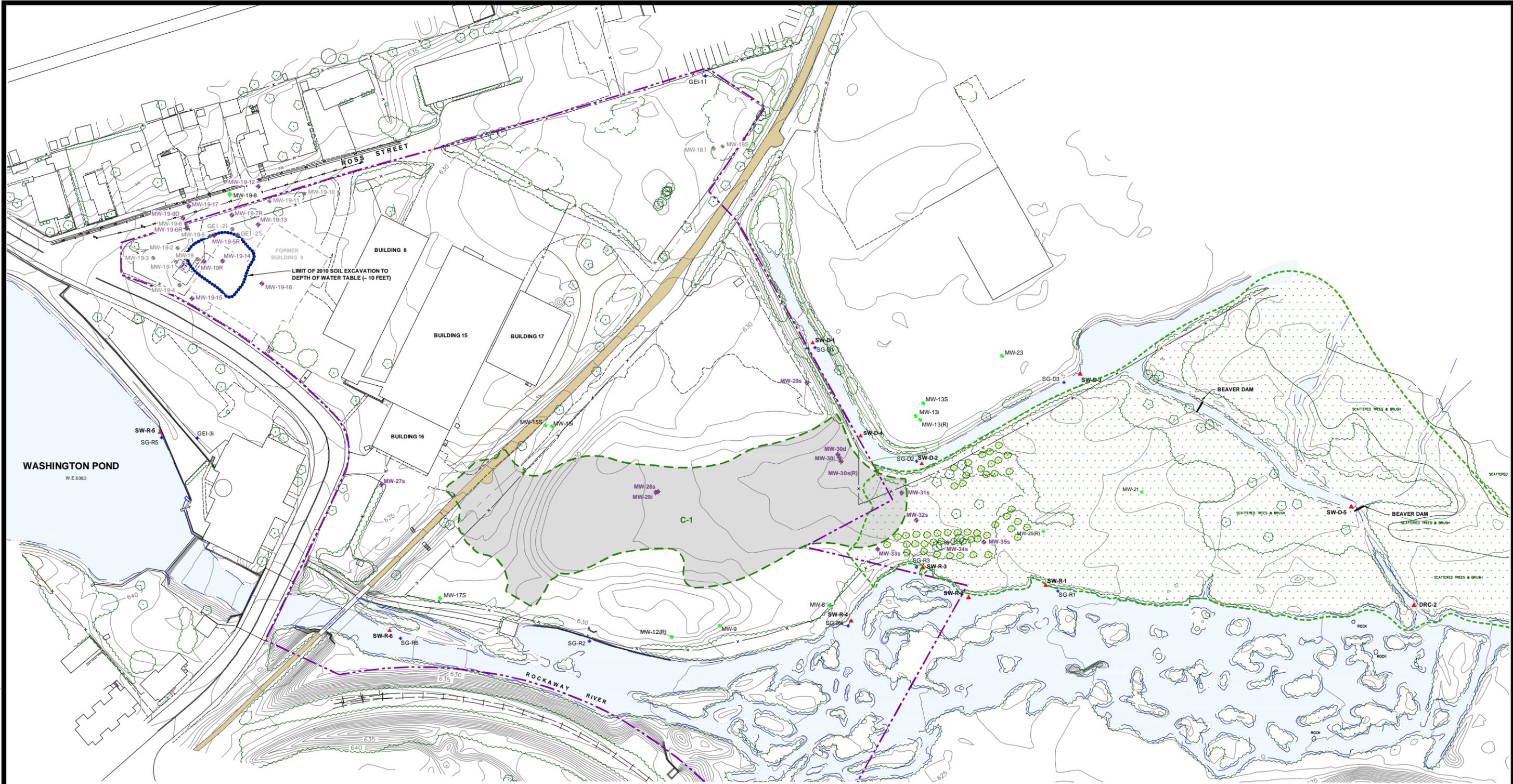


2025 Bellline Ave. SE, Suite 402
 Grand Rapids, MI 49546
 Phone: 201.636.5958
 Fax: 616.975.1098

PROJECT:	DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE - WHARTON, NEW JERSEY
SHEET TITLE:	SITE LOCATION MAP 2014

DRAWN BY:	DGS
APPROVED BY:	SP
PROJ. NO.	212321.2014.01
FILE NO.	212321.2014.01.01.dwg
DATE:	JULY 2014

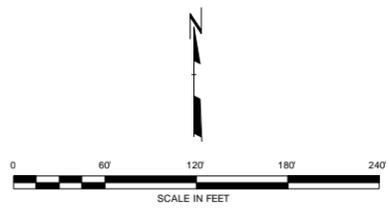
FIGURE 1



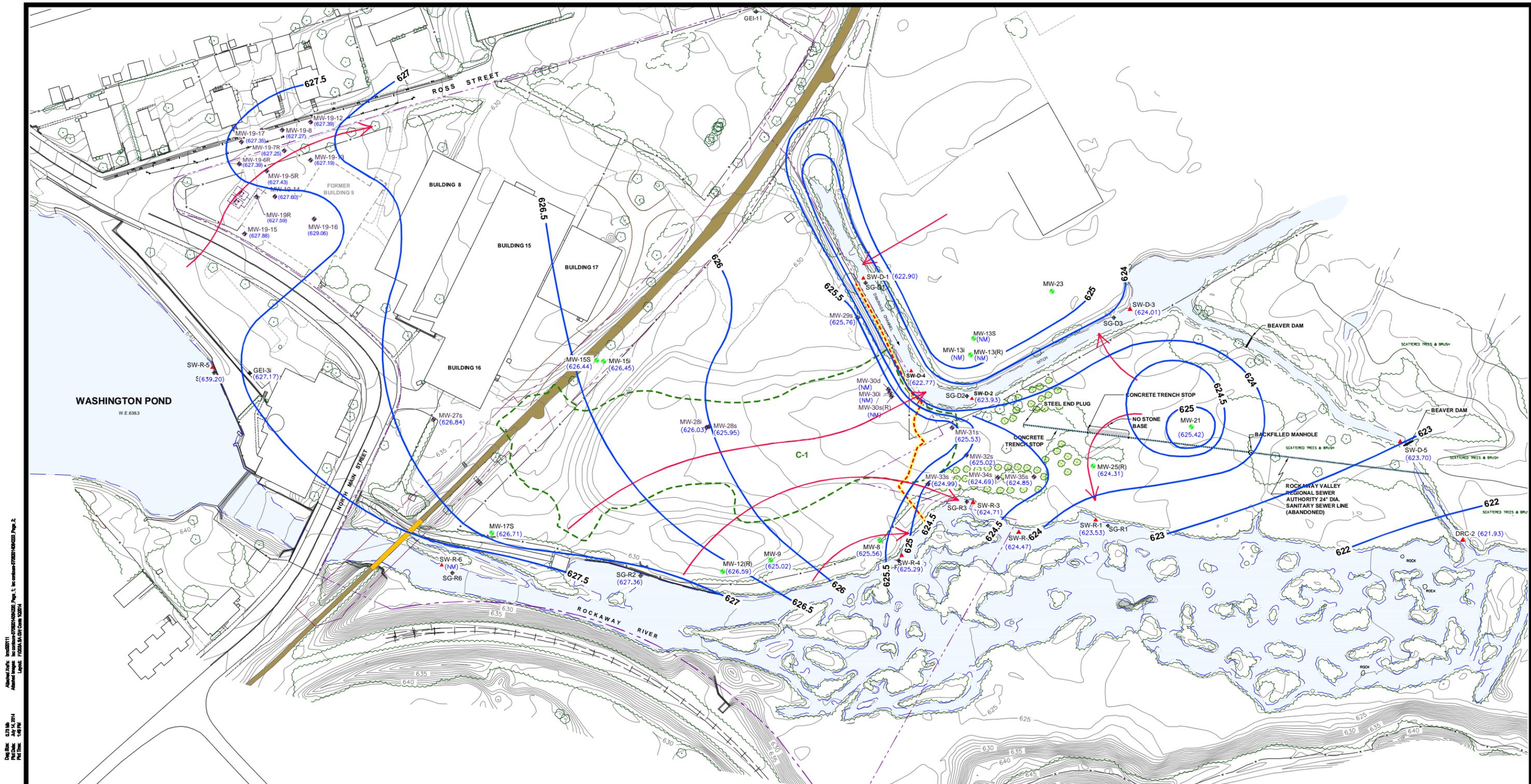
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 Author: JLD
 Checker: JLD
 Plot Time: 2:08 PM
 Plot Date: 07/01/2014
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LEGEND	
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	FENCE LINE
	TREES
	POST-REMEDIATION GROUND SURFACE ELEVATIONS
	ABANDONED MONITORING WELL LOCATION AND NUMBER
	GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	LIMIT OF 2010 SOIL EXCAVATION TO DEPTH OF WATER TABLE (~ 10 FEET)
	OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
	SURFACE WATER SAMPLING LOCATION (D = DITCH; R = RIVER)
	RIVER POINT SURFACE WATER ELEVATION
	DRAINAGE CHANNEL POINT SURFACE WATER ELEVATION
	PIEZOMETER LOCATION
	WETLAND
	PHYTOREMEDIATION TREES

- NOTES**
- BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
 - FORMER BUILDING OPERATIONS
 - BUILDING 8: LAMINATION
 - BUILDING 15 and 17: INSPECTION, STORAGE, AND DISTRIBUTION
 - BUILDING 16: OFFICES
 - MW-19 HOT SPOT ONE WELL ABANDONMENTS OCCURRED ON OCTOBER 13 - 15, 2009.
 - MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.



3				
2				
1				
NO.	BY	DATE	REVISION	APPD.
PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY				
SHEET TITLE: SITE PLAN WITH WELL LOCATIONS 1ST AND 2ND QUARTER 2014				
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CHECKED BY:	AB/SP	AS INDICATED	FILE NO.	212321.2014.01.02.dwg
APPROVED BY:	JLD	DATE PRINTED:	FIGURE 2	
DATE:	JULY 2014			
		2025 Bellline Ave. SE, Suite 402 Grand Rapids, MI 49546 Phone: 201.636.5958 Fax: 616.975.1098		

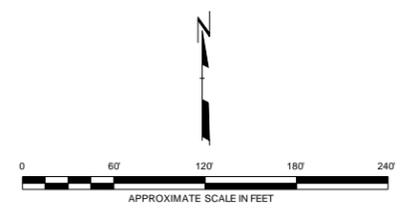


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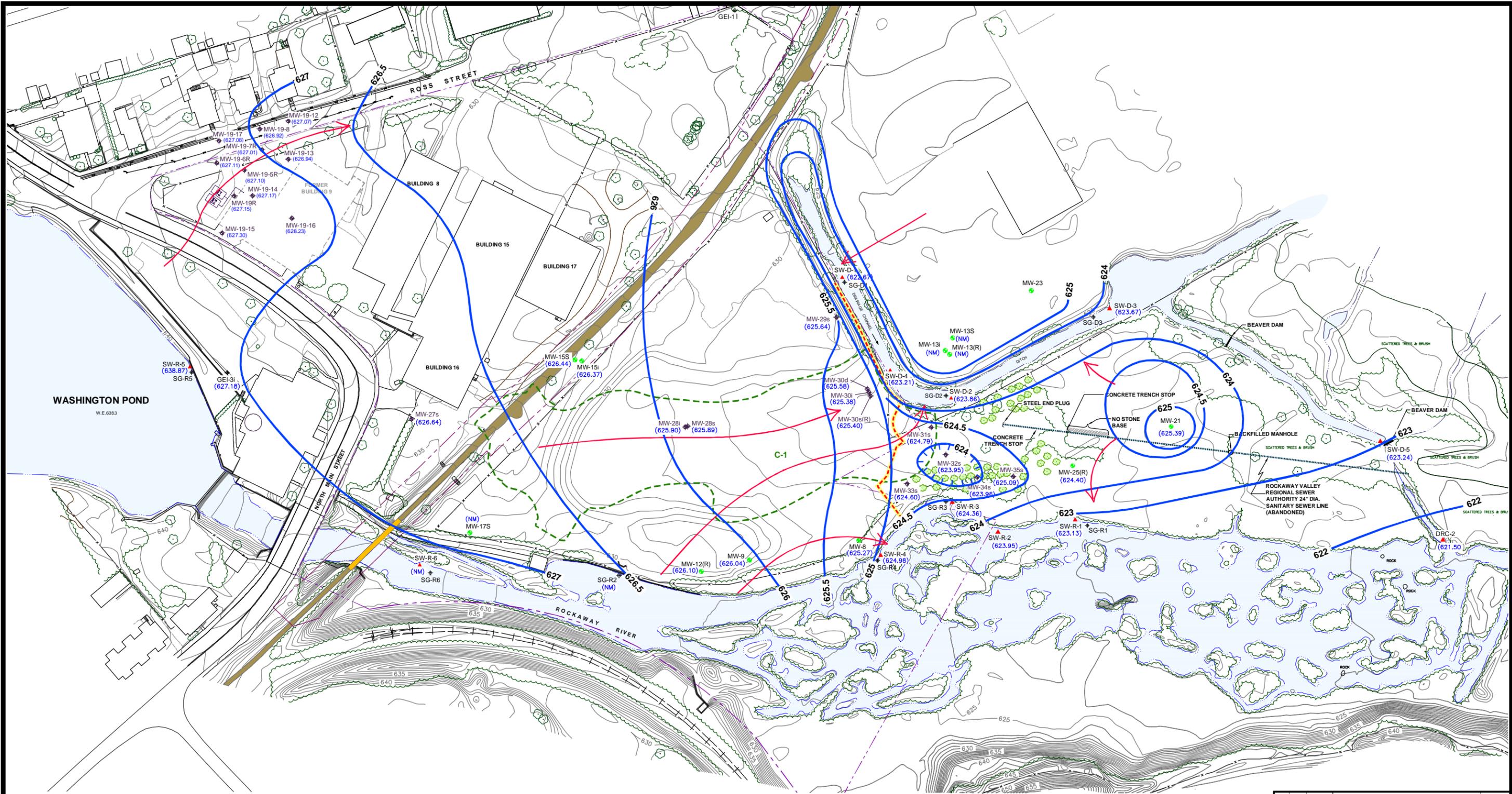
LEGEND

- APPROXIMATE PROPERTY LINE
- FENCE LINE
- TREES
- 630 --- POST-REMEDIATION GROUND SURFACE ELEVATIONS
- MW-25(R) --- GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- MW-29s --- PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- SW-R-1 --- SURFACE WATER SAMPLING LOCATION (D = DITCH, R = RIVER)
- SG-R1 --- RIVER POINT SURFACE WATER ELEVATION
- SG-D1 --- DRAINAGE CHANNEL POINT SURFACE WATER ELEVATION
- GEI-21 --- PIEZOMETER LOCATION
- C-1 --- OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
- (625.88) --- GROUND WATER ELEVATION
- (NM) --- NOT MEASURED
- 625 --- SHALLOW GROUNDWATER ELEVATION CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- WESTERN BOUNDARY OF REGULATED WETLAND
- PHYTOREMEDIATION TREE LOCATION

- NOTES**
- BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907.REV.DWG).
 - FORMER BUILDING OPERATIONS
 - BUILDING 8: LAMINATION
 - BUILDING 15 AND 17: INSPECTION, STORAGE, AND DISTRIBUTION
 - BUILDING 16: OFFICES
 - AS DESCRIBED IN THE November 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
 - MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.



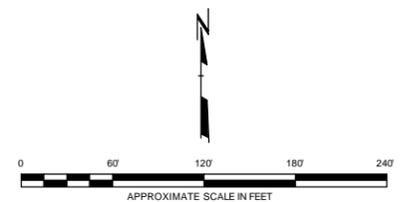
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NO.	BY	DATE	REVISION		APPD
PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY					
SHEET TITLE: SITE-WIDE SHALLOW AQUIFER GROUNDWATER CONTOUR MAP 1ST QUARTER 2014					
DRAWN BY:	SJL/DGS	SCALE:	AS INDICATED	PROJ NO:	212321.2014.01
CHECKED BY:	AB/SP	DATE PRINTED:		FILE NO:	212321.2014.01.03A.dwg
APPROVED BY:	JJD	DATE:	JULY 2014	FIGURE 3A	
2025 Bellline Ave. SE, Suite 402 Grand Rapids, MI 49546 Phone: 201.636.5958 Fax: 616.975.1098					



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 Drawing Date: 07/14/2014
 Plot Time: 8:11 AM
 User: JLD
 Plot Date: 07/14/2014
 Plot Time: 8:11 AM
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 Drawing Title: SITE-WIDE SHALLOW AQUIFER GROUNDWATER CONTOUR MAP
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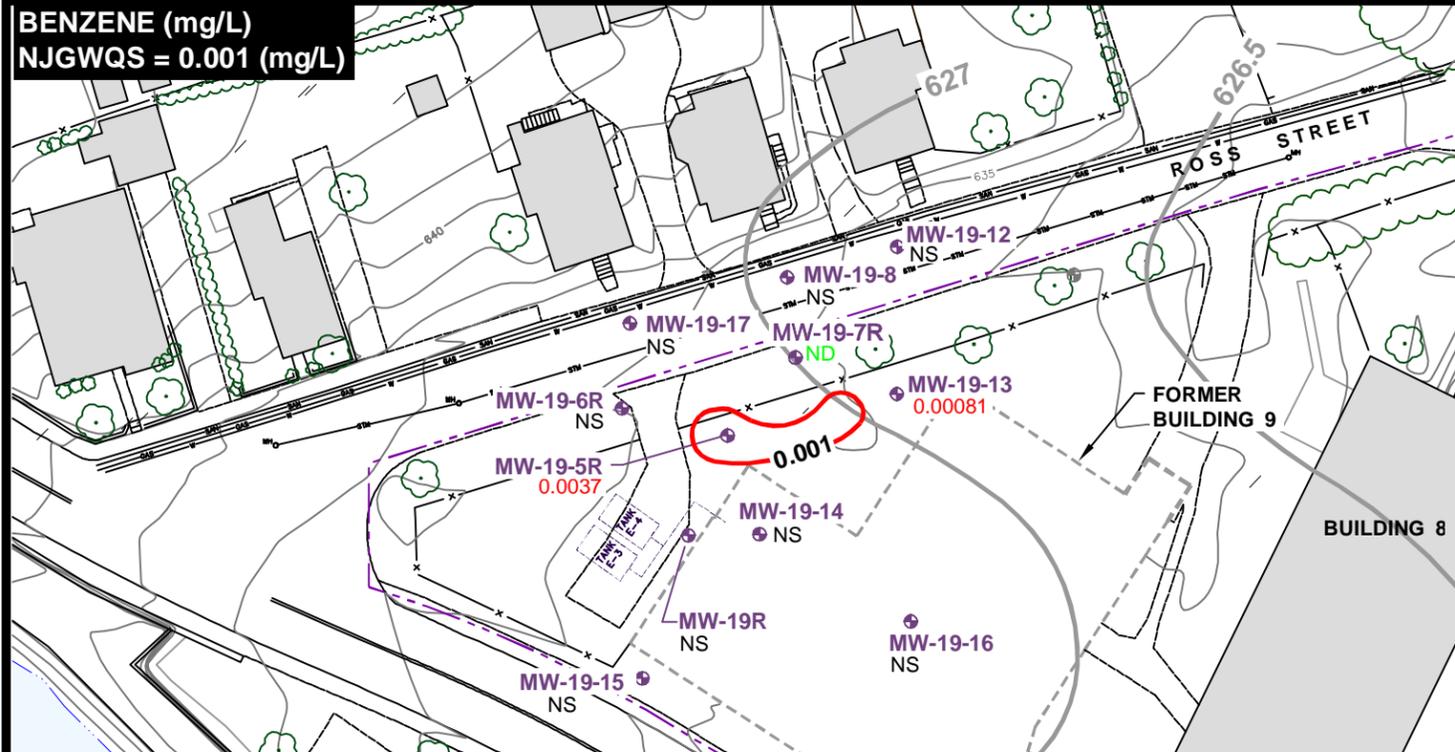
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	FENCE LINE
	TREES
	POST-REMEDIATION GROUND SURFACE ELEVATIONS
	GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	SURFACE WATER SAMPLING LOCATION (D = DITCH, R = RIVER)
	PHYTOREMEDIATION TREE LOCATION
	C-1 (625.88) (NM) OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
	625 SHALLOW GROUNDWATER ELEVATION CONTOUR
	APPROXIMATE GROUNDWATER FLOW DIRECTION
	WESTERN BOUNDARY OF REGULATED WETLAND
	SG-R1 RIVER POINT SURFACE WATER ELEVATION
	SG-D1 DRAINAGE CHANNEL POINT SURFACE WATER ELEVATION
	GEI-21 PIEZOMETER LOCATION

- NOTES**
- BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
 - FORMER BUILDING OPERATIONS
 - BUILDING 8: LAMINATION
 - BUILDING 15 AND 17: INSPECTION, STORAGE, AND DISTRIBUTION
 - BUILDING 16: OFFICES
 - AS DESCRIBED IN THE November 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
 - MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.

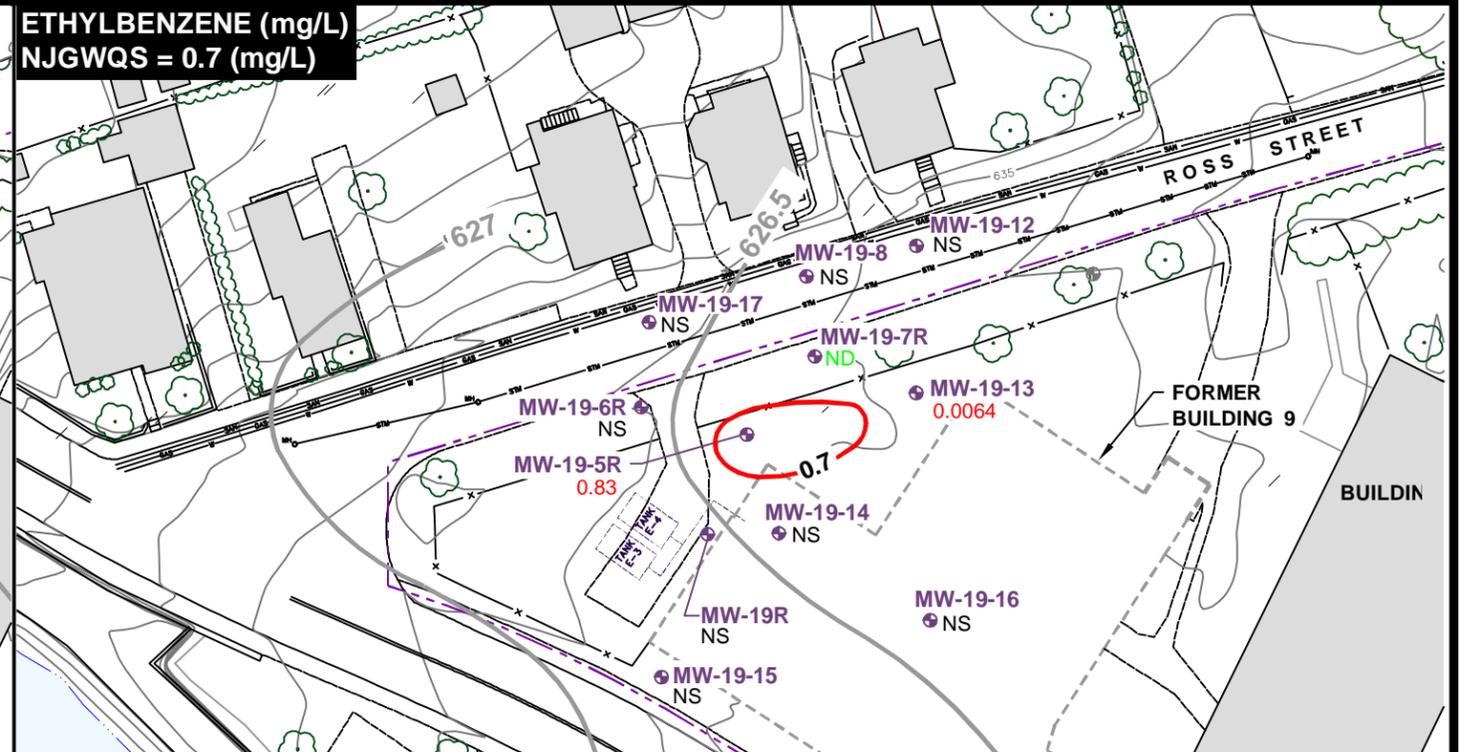


3					
2					
1					
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CHECKED BY:	AB/SP	DATE PRINTED:		FILE NO.:	212321-2014-01-038.dwg
APPROVED BY:	JLD			FIGURE 3B	
DATE:	JULY 2014			2025 Bellline Ave., SE, Suite 402 Grand Rapids, MI 49546 Phone: 201.636.5958 Fax: 616.975.1098	

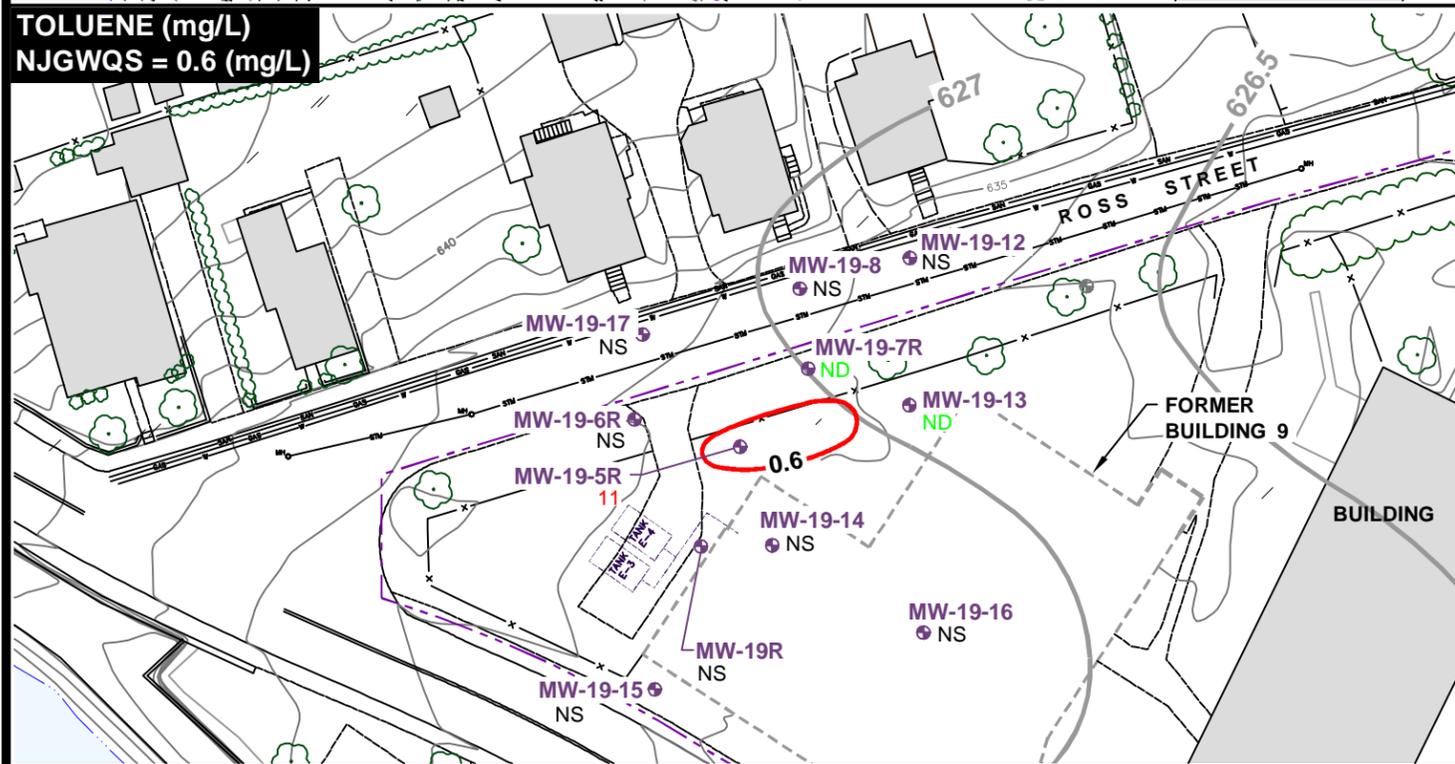
BENZENE (mg/L)
NJGWQS = 0.001 (mg/L)



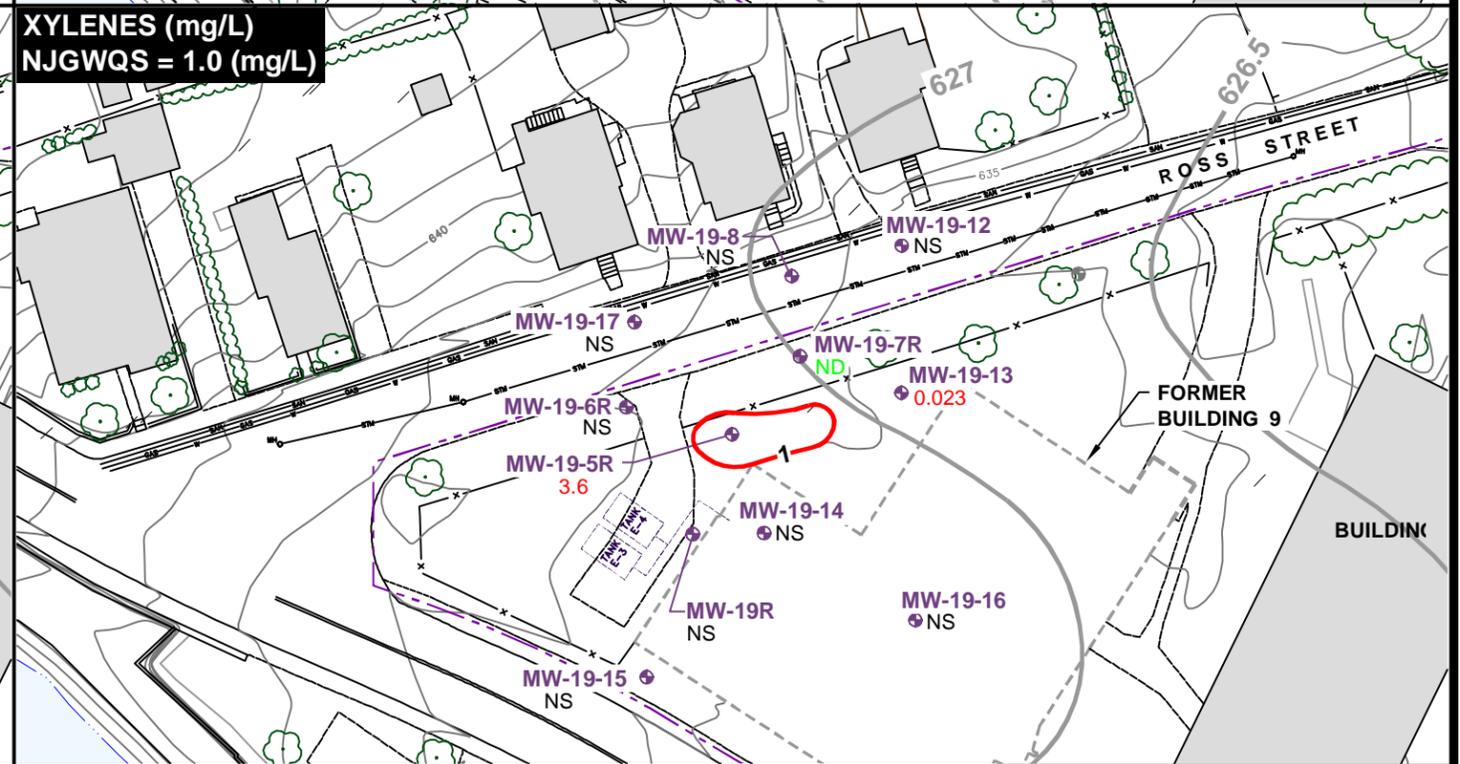
ETHYLBENZENE (mg/L)
NJGWQS = 0.7 (mg/L)



TOLUENE (mg/L)
NJGWQS = 0.6 (mg/L)



XYLENES (mg/L)
NJGWQS = 1.0 (mg/L)

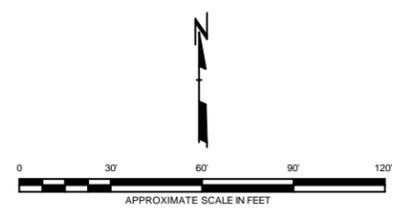


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 Date: 04/10/14
 Author: JAMES M. STEWART
 Project: 2107-03-03
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 Scale: 1" = 60'
 Date: 04/10/14
 Plot: 04/10/14

LEGEND	
	APPROXIMATE PROPERTY LINE
	FENCE LINE
	TREES
	POST-REMEDATION GROUND SURFACE ELEVATIONS
	GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	FORMER UNDERGROUND STORAGE TANK AND PIPING (WESTON 1990-1991)
	1 ISOCONCENTRATION CONTOURS FOR INDIVIDUAL BTEX CONSTITUENTS DISSOLVED IN GROUNDWATER (mg/L)
	626.0 SHALLOW GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	ND NOT DETECTED
	NS NOT SAMPLED
	SAN SANITARY SEWER
	STM REGIONAL STORM SEWER LINE
	W WATER

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).



NO.	BY	DATE	REVISION	APPD.
3				
2				
1				

PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

TITLE: 2014 ANNUAL - ISOCONCENTRATION CONTOURS (mg/L) FOR BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENES IN THE MW-19 / HOT SPOT 1 AREA

DRAWN BY: S.JEDS	SCALE: AS INDICATED	PROJ. NO: 212321.2014.01
CHECKED BY: AB/SP	DATE PRINTED: JUNE 2014	FILE NO: 212321.2014.01.04.dwg
APPROVED BY: J.J.D		FIGURE 4
DATE: JUNE 2014		

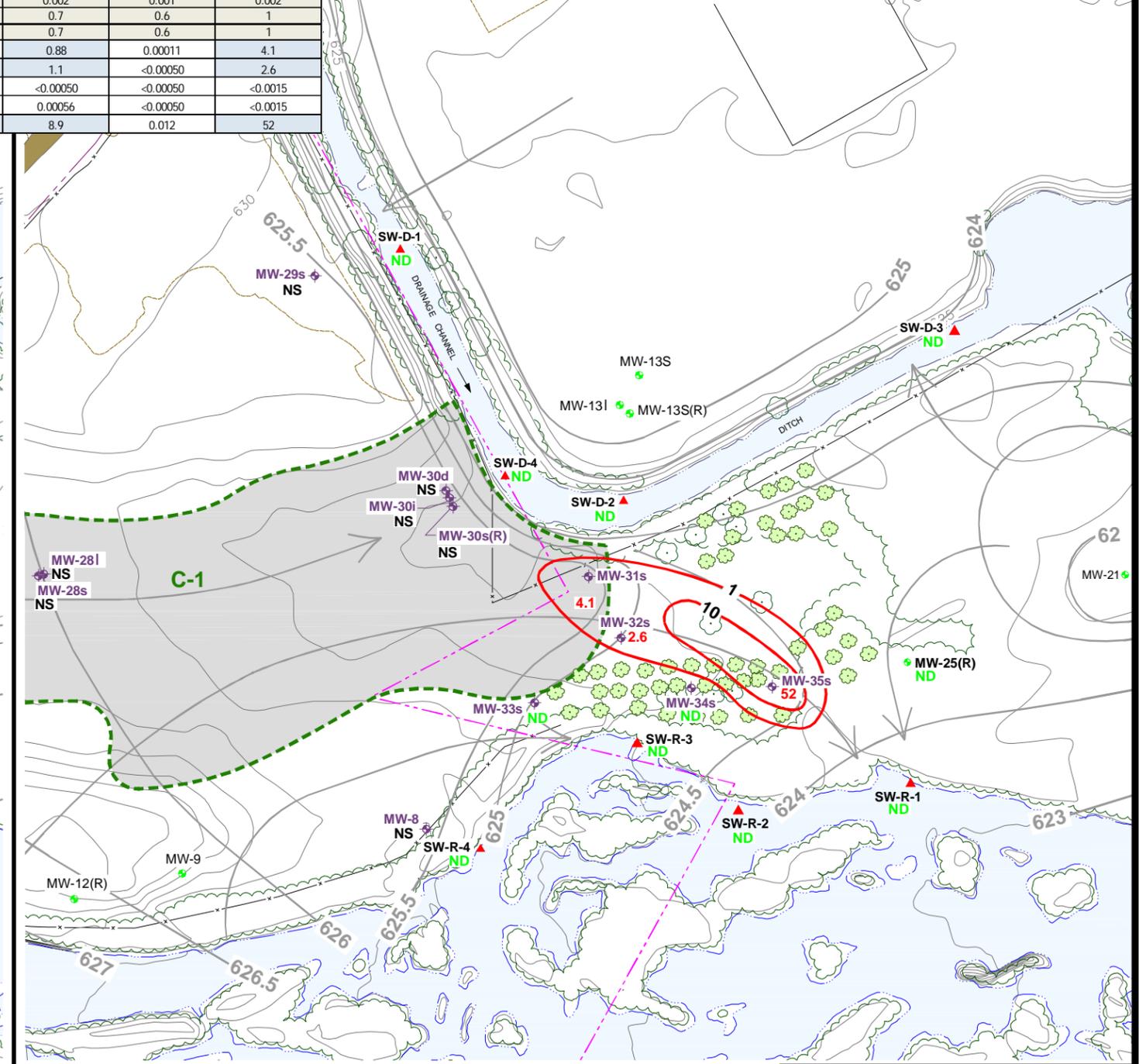
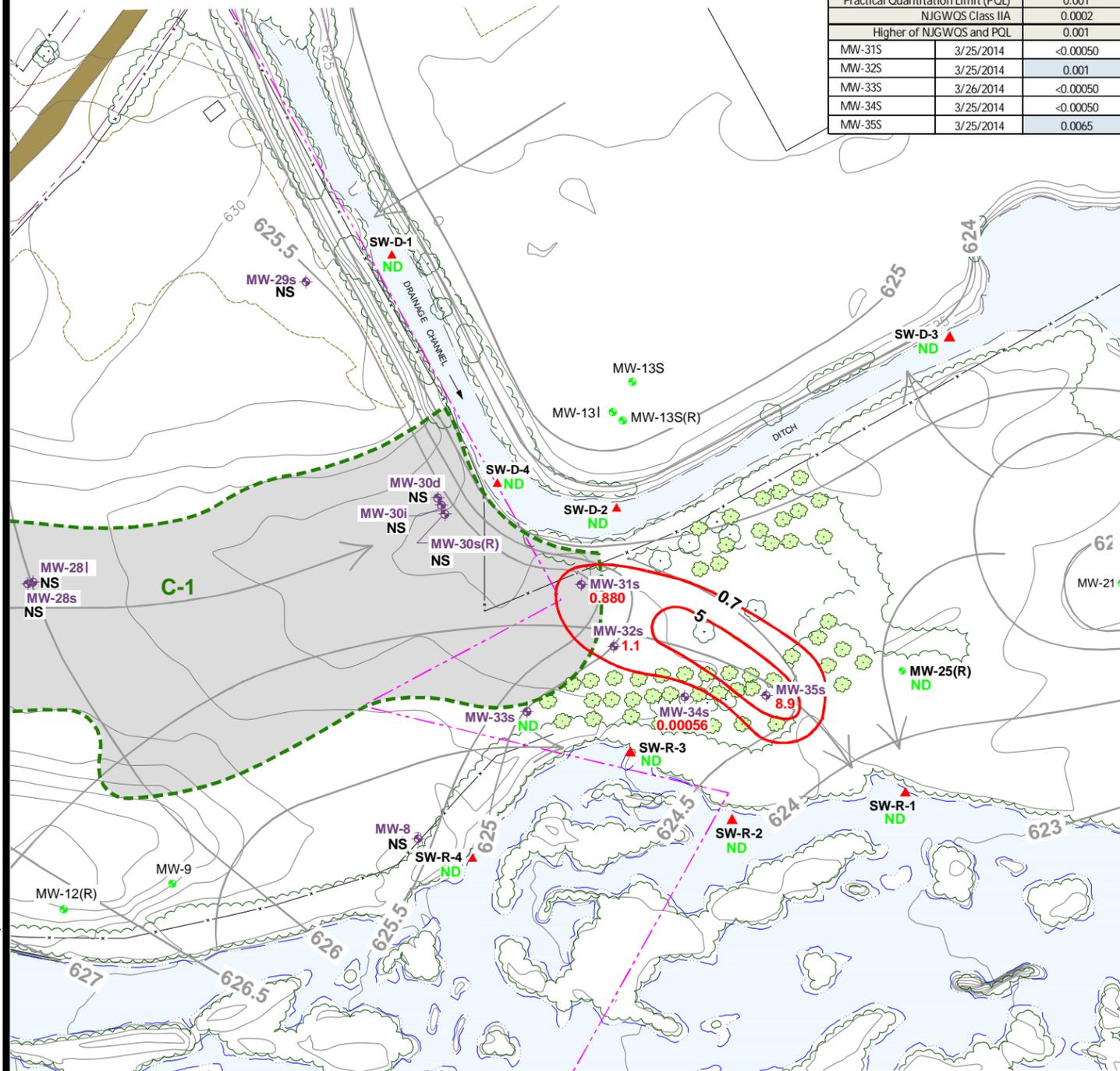
2025 Bellline Ave., SE, Suite 402
Grand Rapids, MI 49546
Phone: 201.636.5958
Fax: 616.975.1098

SUMMARY OF 1Q2014 BTEX DETECTIONS

Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	
Units	mg/L	mg/L	mg/L	mg/L	
Solubility Limit	1,700	152	515	175	
Practical Quantitation Limit (PQL)	0.001	0.002	0.001	0.002	
NJGWQS Class IIA	0.0002	0.7	0.6	1	
Higher of NJGWQS and PQL	0.001	0.7	0.6	1	
MW-31S	3/25/2014	<0.00050	0.88	0.0011	4.1
MW-32S	3/25/2014	0.001	1.1	<0.00050	2.6
MW-33S	3/26/2014	<0.00050	<0.00050	<0.00050	<0.0015
MW-34S	3/25/2014	<0.00050	0.00056	<0.00050	<0.0015
MW-35S	3/25/2014	0.0065	8.9	0.012	52

ETHYLBENZENE (mg/L)

XYLENES (mg/L)



LEGEND

- APPROXIMATE PROPERTY LINE
- x- FENCE LINE
- TREES
- MW-19-21 GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- MW-19R PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- GEI-31 PIEZOMETER LOCATION
- SW-R-5 SURFACE WATER SAMPLING LOCATION (D = DITCH; R = RIVER)
- 630 POST-REMEDIATION GROUND SURFACE ELEVATIONS
- 625 SHALLOW GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- C-1 OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
- PHYTOREMEDIATION TREE LOCATION

ETHYLBENZENE

- 0.7 ISOCONCENTRATION FOR ETHYLBENZENE (mg/L) IN GROUNDWATER
- 2.8 ETHYLBENZENE (mg/L) IN GROUNDWATER

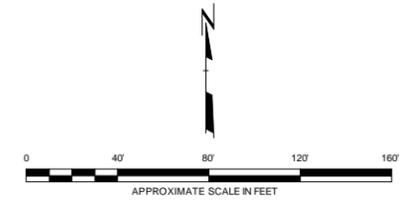
TOTAL XYLENES

- 10 ISOCONCENTRATION FOR TOTAL XYLENES (mg/L) IN GROUNDWATER
- 25 TOTAL XYLENES (mg/L) IN GROUNDWATER
- ND NOT DETECTED
- NS NOT SAMPLED

NOTES

- BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314807REV.DWG).
- AS DESCRIBED IN THE November 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
- MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.

Date Plotted: 7/16/14
 Drawing Name: ETHYL BTEX & XYLENES MW-30 Area (10014)
 Layer: 1000A_ETHYL BTEX & XYLENES MW-30 Area (10014)
 Plot Title: 2:48 PM
 Plot Date: Jul 17, 2014
 Plot Time: 2:48 PM
 User: J:\Users\jstewart\Documents\2014\10014_ETHYL BTEX & XYLENES MW-30 Area (10014).dwg
 Drawing Path: C:\Users\jstewart\Documents\2014\10014_ETHYL BTEX & XYLENES MW-30 Area (10014).dwg



3				
2				
1				
NO	BY	DATE	REVISION	APPD
PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY				
SHEET TITLE: 1ST QUARTER 2014 ETHYLBENZENE AND TOTAL XYLENES ISOCONCENTRATION CONTOURS (mg/L) FOR THE MW-30 AREA				
DRAWN BY:	S.J.A.D.G.S.	SCALE:	PROJ. NO.:	212321.2014.01
CHECKED BY:	AB/SP	AS INDICATED	FILE NO.:	212321.2014.01.00A.dwg
APPROVED BY:	J.J.D.	DATE PRINTED:	FIGURE 5A	
DATE:	JULY 2014			
2025 Bellline Ave. SE, Suite 402 Grand Rapids, MI 49546 Phone: 201.636.5958 Fax: 616.975.1098				

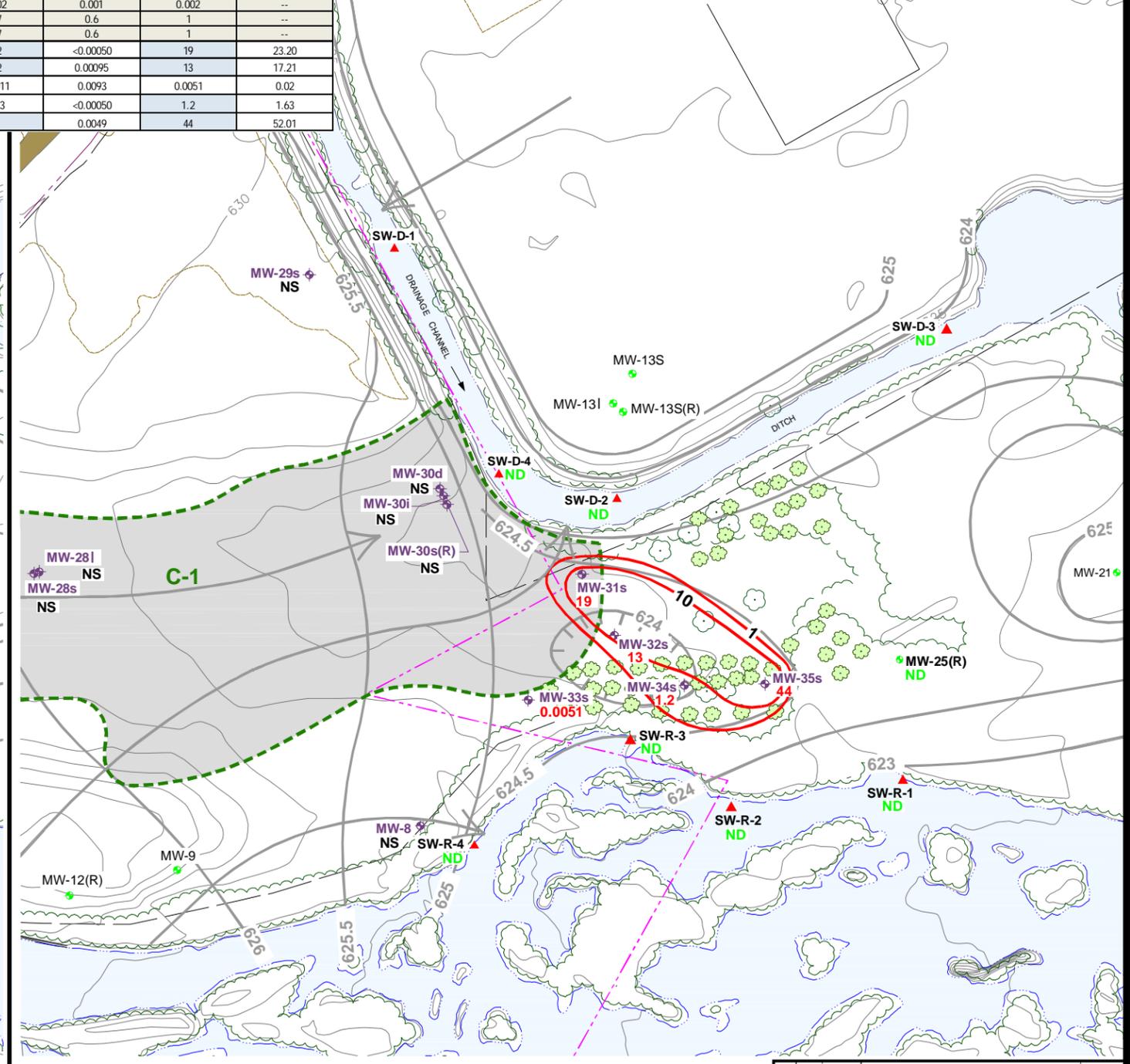
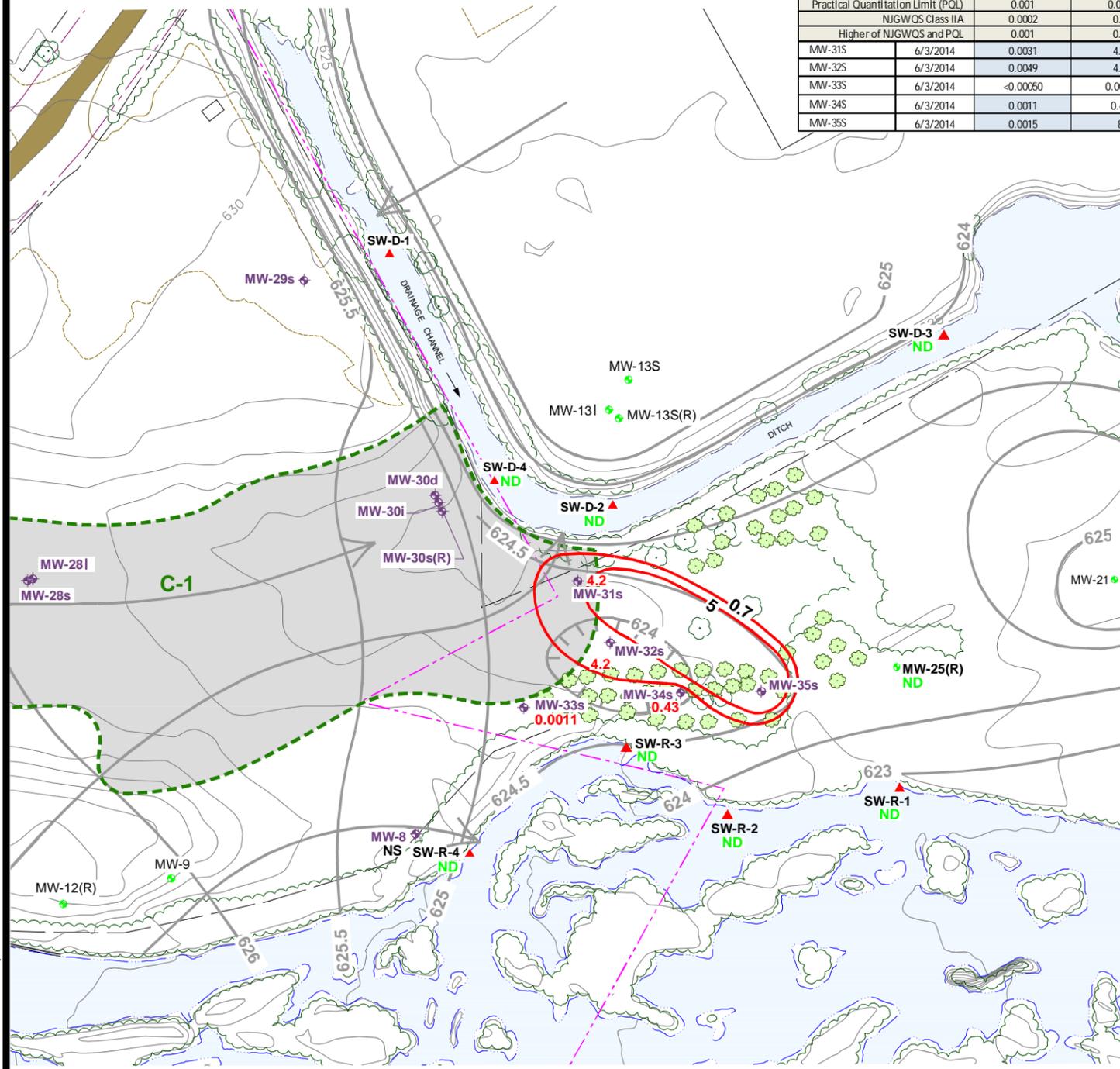


SUMMARY OF 2Q2014 BTEX DETECTIONS

Analytical Parameters	Benzene	Ethylbenzene	Toluene	Total Xylenes	Total BTEX	
Units	mg/L	mg/L	mg/L	mg/L	mg/L	
Solubility Limit	1,700	152	515	175	--	
Practical Quantitation Limit (PQL)	0.001	0.002	0.001	0.002	--	
NUGWQS Class IIA	0.0002	0.7	0.6	1	--	
Higher of NUGWQS and PQL	0.001	0.7	0.6	1	--	
MW-31S	6/3/2014	0.0031	4.2	<0.00050	19	23.20
MW-32S	6/3/2014	0.0049	4.2	0.00095	13	17.21
MW-33S	6/3/2014	<0.00050	0.0011	0.0093	0.0051	0.02
MW-34S	6/3/2014	0.0011	0.43	<0.00050	1.2	1.63
MW-35S	6/3/2014	0.0015	8	0.0049	44	52.01

ETHYLBENZENE (mg/L)

XYLENES (mg/L)



LEGEND

- - - - - APPROXIMATE PROPERTY LINE
- X FENCE LINE
- TREES
- MW-19-21 GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- MW-19R PRIMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
- GEI-31 PIEZOMETER LOCATION
- SW-R-5 SURFACE WATER SAMPLING LOCATION (D = DITCH; R = RIVER)
- 630 POST-REMEDIATION GROUND SURFACE ELEVATIONS
- 625 SHALLOW GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- C-1 OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH
- PHYTOREMEDIATION TREE LOCATION

ETHYLBENZENE

- 0.7 ISOCENTRATION FOR ETHYLBENZENE (mg/L) IN GROUNDWATER
- 2.8 ETHYLBENZENE (mg/L) IN GROUNDWATER

TOTAL XYLENES

- 10 ISOCENTRATION FOR TOTAL XYLENES (mg/L) IN GROUNDWATER
- 25 TOTAL XYLENES (mg/L) IN GROUNDWATER

ND NOT DETECTED
NS NOT SAMPLED

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
2. AS DESCRIBED IN THE November 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
3. MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.

Plot Date: 7/27/2014
 Drawing Name: 212321-2014-01-0509.dwg
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 Date Plotted: 7/27/2014
 Plot Time: 3:43 PM
 Plotter: HP DesignJet 2000 Series
 Plot Scale: 1:1

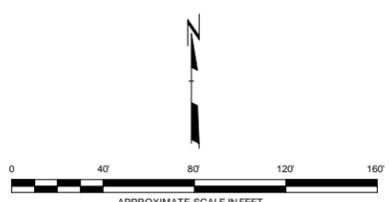
NO.	BY	DATE	REVISION	APPD.

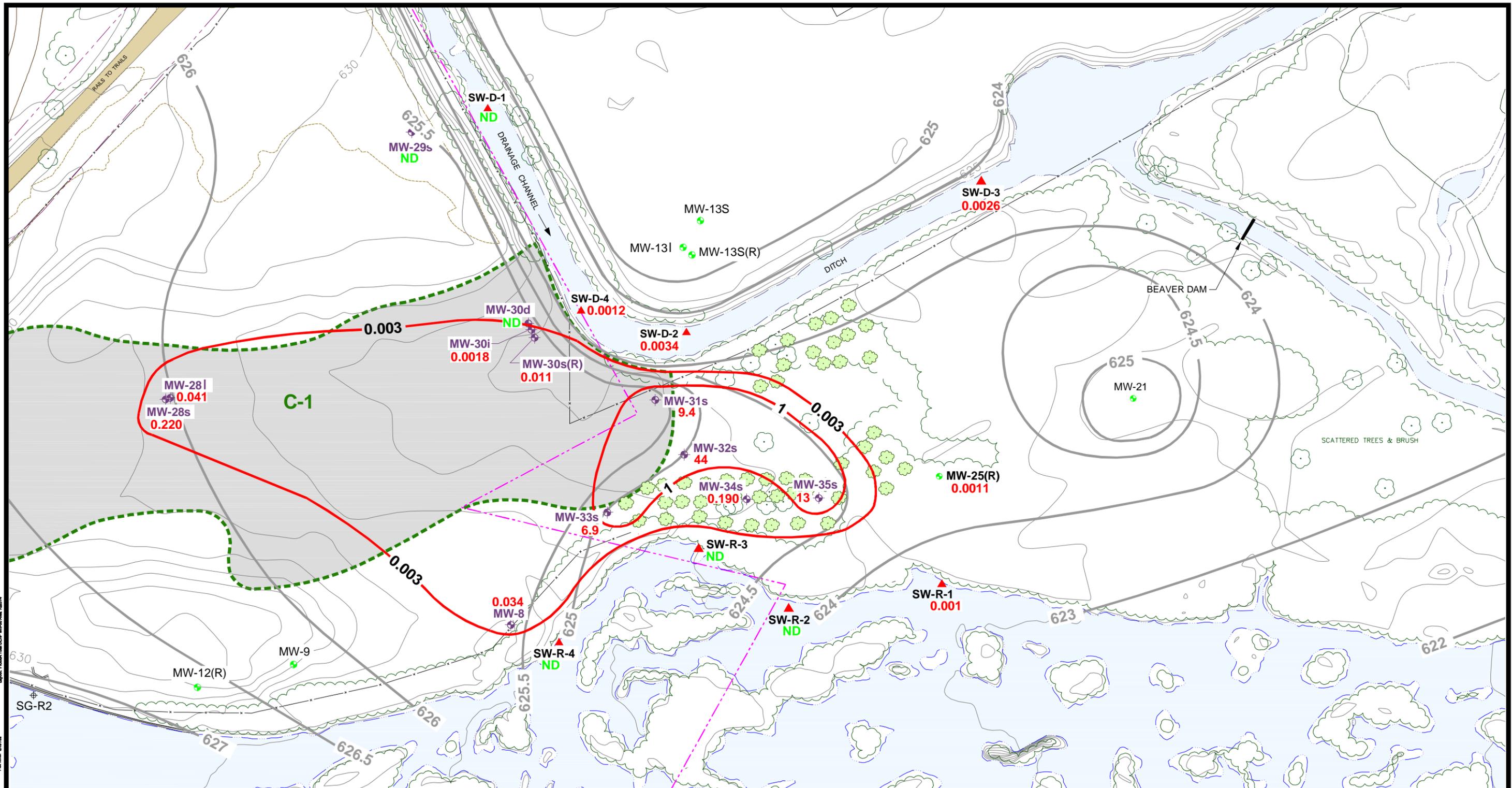
PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY

SHEET TITLE: 2ND QUARTER 2014 ETHYLBENZENE AND TOTAL XYLENES ISOCONCENTRATION CONTOURS (mg/L) FOR THE MW-30 AREA

DRAWN BY: SJL/DGS	SCALE: AS INDICATED	PROJ. NO.: 212321-2014-01
CHECKED BY: AB/SP	DATE PRINTED: JULY 2014	FILE NO.: 212321-2014-01-0509.dwg
APPROVED BY: JJD	DATE: JULY 2014	FIGURE 5B

2025 Bellline Ave., SE., Suite 402
 Grand Rapids, MI 49546
 Phone: 201.636.5958
 Fax: 616.975.1098

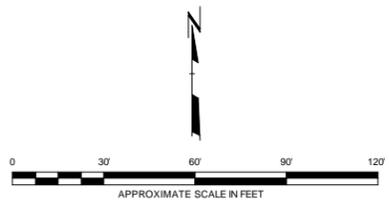




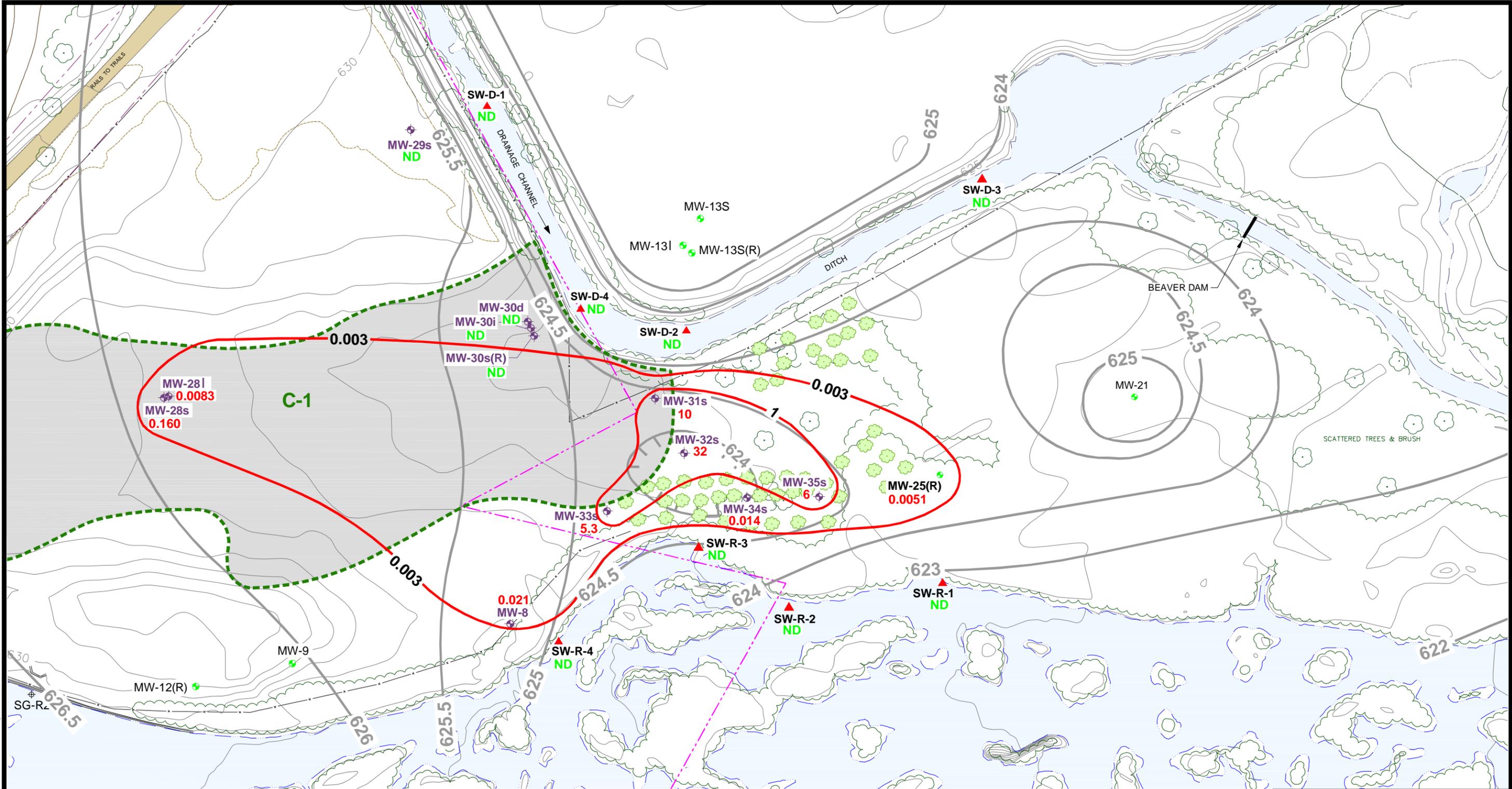
2/17/2014
 Drawing Name: 212321.2014.01.00A.dwg
 Drawing File Path: C:\Users\jrb\OneDrive\Documents\212321.2014.01.00A.dwg
 Date Plotted: 03/10/2014
 Plot Time: 09:41 AM
 Layout: FLOOR PLAN
 Project: MW-30 Area 10214

LEGEND	
	APPROXIMATE PROPERTY LINE
	FENCE LINE
	TREES
	GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	PIEZOMETER LOCATION
	SURFACE WATER SAMPLING LOCATION (D = DITCH; R = RIVER)
	PHYTOREMEDIATION TREE LOCATION
	ISOCONCENTRATION FOR TOTAL MAXIMUM DEHP (mg/L) IN GROUNDWATER
	TOTAL DEHP (mg/L) IN GROUNDWATER
	NOT DETECTED
	POST-REMEDIATION GROUND SURFACE ELEVATIONS
	SHALLOW GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	APPROXIMATE GROUNDWATER FLOW DIRECTION
	OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH

- NOTES**
- BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO. 2793-03.DWG, DATED 02-14-02 AS REVISED 04-10-07 (DRAWING NO. 314907REV.DWG).
 - AS DESCRIBED IN THE November 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
 - MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.



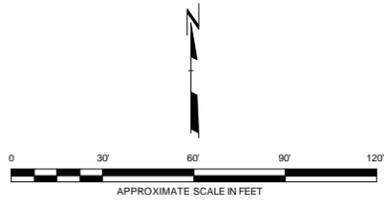
3				
2				
1				
NO.	BY	DATE	REVISION	APPD
PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY				
SHEET TITLE: 1ST QUARTER 2014 TOTAL DEHP ISOCONCENTRATION CONTOURS (mg/L) FOR THE MW-30 AREA				
DRAWN BY:	SIL/DGS	SCALE:	PROJ. NO.:	212321.2014.01
CHECKED BY:	AB/SP	AS INDICATED	FILE NO.:	212321.2014.01.00A.dwg
APPROVED BY:	JJD	DATE PRINTED:	FIGURE 6A	
DATE:	JULY 2014			
2025 Bellline Ave. SE, Suite 402 Grand Rapids, MI 49546 Phone: 201.636.5958 Fax: 616.975.1098				



11/2014 E:\Comm\212321\212321_01.dwg 11/18/14 10:08 AM
 Drawing Name: 212321_01.dwg
 Drawing Path: E:\Comm\212321\212321_01.dwg
 Plot Date: 11/18/14
 Plot Time: 10:08 AM
 Author: JLD
 Layer: 212321_Trial_DWG
 Plot Scale: 1:1
 Plot Size: 36" x 48"

LEGEND	
	APPROXIMATE PROPERTY LINE
	FENCE LINE
	TREES
	GROUNDWATER ELEVATION MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	PRMP MONITORING WELL LOCATION AND NUMBER (s = shallow, i = intermediate, d = deep)
	PIEZOMETER LOCATION
	SURFACE WATER SAMPLING LOCATION (D = DITCH; R = RIVER)
	PHYTOREMEDIATION TREE LOCATION
	ISOCONCENTRATION FOR TOTAL MAXIMUM DEHP (mg/L) IN GROUNDWATER
	TOTAL DEHP (mg/L) IN GROUNDWATER
	NOT DETECTED
	RESULT IS ESTIMATED
	POST-REMEDIATION GROUND SURFACE ELEVATIONS
	SHALLOW GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	APPROXIMATE GROUNDWATER FLOW DIRECTION
	OUTLINE OF 2005 SOURCE REDUCTION AREA AND SUBSURFACE SLURRY MONOLITH

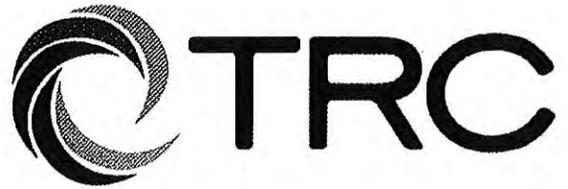
- NOTES**
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 - AS DESCRIBED IN THE November 2005 RAR (SEE FIGURE 9 IN THAT REPORT), THE SLURRY MONOLITH AT AND PARALLEL TO THE DRAINAGE CHANNEL DITCH ENDS APPROXIMATELY 10 FEET WEST OF THE ACTUAL WATERS EDGE.
 - MW-30 AREA MONITORING WELLS WERE RE-SURVEYED IN 2011 DURING SURVEY OF INVESTIGATION SOIL BORINGS. SURVEY CONDUCTED BY DENNIS SKLAR, INC.



3				
2				
1				
NO.	BY	DATE	REVISION	APPD.
PROJECT: DAYCO CORPORATION / L.E. CARPENTER SUPERFUND SITE WHARTON, NEW JERSEY				
SHEET TITLE: 2ND QUARTER 2014 TOTAL DEHP ISOCONCENTRATION CONTOURS (mg/L) FOR THE MW-30 AREA				
DRAWN BY:	SJL/AGS	SCALE:	PROJECT NO.:	212321.2014.01
CHECKED BY:	AB/SP	AS INDICATED	FILE NO.:	212321.2014.01.008.dwg
APPROVED BY:	JJD	DATE PRINTED:	FIGURE 6B	
DATE:	JULY 2014			
		2025 Bellline Ave. SE, Suite 402 Grand Rapids, MI 49546 Phone: 201.636.5958 Fax: 616.975.1098		

Appendix A

Field Data Forms



PROJECT NAME:	LE Carpenter & Co.
PROJECT NUMBER:	212321.000001.000000
PROJECT MANAGER:	B. Culp
SITE LOCATION:	170 N. Main Street Wharton, NJ 07885
DATES OF FIELDWORK:	3/24/2014 TO 3/26/2014 + 04/17/14
PURPOSE OF FIELDWORK:	1Q14 Sampling
	1Q14 Sampling
	David Marx, Daniel Shanahan
WORK PERFORMED BY:	

D. Marx 03/26/14
SIGNED DATE

Scott Pawlenty 5/7/14
CHECKED BY DATE



GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 03/24/14	TIME ARRIVED: 0600
PROJECT NUMBER: 212321.000001.000000	AUTHOR: David Marx	TIME LEFT: 1600

WEATHER		
TEMPERATURE: 20-32 °F	WIND: 8 MPH	VISIBILITY: Partly Cloudy

WORK / SAMPLING PERFORMED
Unload / Check Equipment Collect site wide photos Collect Site wide Water Levels (MW-305R, MW-302 and MW-300 frozen) Sampled SW-D-5, DPC-02, SW-R-1 → SW-R-4, SW-R-6 Purge MW-345, MW-355, MW-325, MW-315, MW-275

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
3x55 gallon drums have ballooned out on the bottom due to freezing	- Informed SP (TRC)
MW-305R, MW-302, MW-300 Frozen	- SAA

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
Scott P	TRC	Updated on

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
GW	~ 8 gallons	Stored in poly tank

SIGNED: D. Marx DATE: 03/24/14 CHECKED BY: S. Paulshin DATE: 5/27/14



GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 03/25/14	TIME ARRIVED: 0630
PROJECT NUMBER: 212321.000001.000000	AUTHOR: David Marx	TIME LEFT: 1600

WEATHER		
TEMPERATURE: 19-36 °F	WIND: 6 MPH	VISIBILITY: Overcast

WORK / SAMPLING PERFORMED
Sampled MW-34S + DUP-01, MW-35S + MS/MSD, MW-32S.
MW-29S, MW-31S, MW-25R, MW-28I, MW-08
MW-28S, MW-27S
Purged MW-33S
Shipped Samples

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
None	

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
B. Culp	TRC	Gave update
S. Pawlowski	TRC	

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
GW	~ 25 gallons	Stored in poly tanks

SIGNED D. Marx DATE 03/25/14
 CHECKED BY S. Pawlowski DATE 5/7/14



GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 03/26/14	TIME ARRIVED: 0630
PROJECT NUMBER: 212321.000001.000000	AUTHOR: David Marx	TIME LEFT: 1230

WEATHER		
TEMPERATURE: <u>28-33</u> °F	WIND: <u>15</u> MPH	VISIBILITY: <u>partly cloudy</u>
WORK / SAMPLING PERFORMED		
Sampled MW-33S, RB-01, ATM-01, RB-02, SW-D-4 + DUP-02 SW-D-3, SW-D-2, SW-D-1 Site Inventory + Cleanup Shipped Samples		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Unable to collect samples from MW-30SR, MW-30I, MW-30D due to frozen water column	

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
GW	~ 0.5 gallon	stored in poly tank

_____ 03/26/14 _____ 5/7/14
 SIGNED DATE CHECKED BY DATE



GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: <u>04/17/14</u>	TIME ARRIVED: <u>0930</u>
PROJECT NUMBER: 212321.000001.000000	AUTHOR: D. Marx	TIME LEFT: <u>1400</u>

WEATHER		
TEMPERATURE: <u>40-48</u> °F	WIND: <u>6.9 MB</u> MPH	VISIBILITY: <u>clear</u>
WORK / SAMPLING PERFORMED		
<u>Se. purge and sample MW-305K, MW-30I, MW-30D</u>		
<u>Sample SW-R-4</u>		
<u>Ship Samples</u>		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
<u>None</u>	

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
<u>S. Pawelkiewicz</u>	<u>TRC</u>	<u>Update Status</u>

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
<u>GW</u>	<u>19-20</u>	<u>stored in poly tank</u>

D. Marx 04/17/14
 SIGNED DATE

S. Pawelkiewicz 5/7/14
 CHECKED BY DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: <u>DM, DPS</u>
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL <u>21323</u>	DATE: <u>03/24/14</u>

PH CALIBRATION CHECK			
pH 7	pH 4 / 10	CAL. RANGE	TIME
(LOT #):	(LOT #):		
(EXP. DATE):	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK			
CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(°CELSIUS)		
(EXP. DATE):			
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK			
CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(°CELSIUS)		
(EXP. DATE):			
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK		
CALIBRATION READING	CAL. RANGE	TIME
(mg/L)		
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK			
CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(LOT #):		
(EXP. DATE):	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS	
<input checked="" type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #): <u>C365605</u>	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE): <u>12/31/14</u>	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH <u>4.0</u>	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND <u>4.48</u>	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. <u>10.10</u>	D.O.: VARIES
<input checked="" type="checkbox"/> TURB <u>0.0</u>	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	
<input type="checkbox"/> _____	
	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

PROBLEMS ENCOUNTERED	CORRECTIVE ACTIONS
None	

SIGNED [Signature] DATE 03/24/14

CHECKED BY [Signature] DATE 5/7/14



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: <u>DM, DPS</u>
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL 24284	DATE: 03/24/14

PH CALIBRATION CHECK

LOT #:	LOT #:	CAL. RANGE	TIME
(EXP. DATE):	(EXP. DATE):		
PH 7	PH 4 / 10		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

LOT #:	TEMPERATURE	CAL. RANGE	TIME
(EXP. DATE):	(°CELSIUS)		
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

LOT #:	TEMPERATURE	CAL. RANGE	TIME
(EXP. DATE):	(°CELSIUS)		
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING	CAL. RANGE	TIME
(mg/L)		
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

LOT #:	LOT #:	CAL. RANGE	TIME
(EXP. DATE):	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOGAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #): C3C5605	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE): 12/31/14	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH 7.0	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND 9.49	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. 10.23	D.O.: VARIES
<input checked="" type="checkbox"/> TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	

⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

None

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

SIGNED J. M. [Signature] DATE 03/24/14

CHECKED BY B. Pawlenty DATE 5/7/14



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DM, DPS
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL 21323	DATE: 03/25/14

PH CALIBRATION CHECK

pH 7 (LOT #): 135109 (EXP. DATE): 08/17	pH 4/10 (LOT #): 134637 (EXP. DATE): 07/15	CAL. RANGE	TIME
POST-CAL READING / STANDARD	POST-CAL READING / STANDARD		
6.99 / 7	4.01 / 4	<input checked="" type="checkbox"/> WITHIN RANGE	1200
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (*CELSIUS)	CAL. RANGE	TIME
POST-CAL READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (*CELSIUS)	CAL. RANGE	TIME
POST-CAL READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):		
POST-CAL READING / STANDARD	POST-CAL READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): C365605 (EXP. DATE): 10/31/14	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH 3.99	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND 4.49	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. 10.29	D.O.: VARIES
<input checked="" type="checkbox"/> TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	

⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

None	
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SIGNED: J. M. [Signature] DATE: 03/25/14

CHECKED BY: S. Pawelby DATE: 5/7/14



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DM, DPS
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL 24284	DATE: 03/25/14

PH CALIBRATION CHECK

pH 7		pH 4 / 10		CAL RANGE	TIME
(LOT #):	(EXP. DATE):	(LOT #):	(EXP. DATE):		
POST-CAL. READING / STANDARD		POST-CAL. READING / STANDARD			
/		/		<input type="checkbox"/> WITHIN RANGE	
/		/		<input type="checkbox"/> WITHIN RANGE	
/		/		<input type="checkbox"/> WITHIN RANGE	
/		/		<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL RANGE	TIME
(LOT #):	(°CELSIUS)		
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL RANGE	TIME
(LOT #):	(°CELSIUS)		
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING	CAL RANGE	TIME
(mg/L)		
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL RANGE	TIME
(LOT #):	(EXP. DATE):		
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): C365605 (EXP. DATE): 12/31/14	<input type="checkbox"/> STANDARD SOLUTION (S)
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH 4.00	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND 4.49	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. 10.32	D.O.: VARIES
<input checked="" type="checkbox"/> TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	

⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

None	

SIGNED Dr. Mum DATE 03/25/14

CHECKED BY S. P. ... DATE 5/7/14



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: <u>DM, DPS</u>
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL <u>21323</u>	DATE: <u>03/26/14</u>

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(LOT #):		
(EXP. DATE):	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #) <u>CX5605</u> (EXP. DATE) <u>12/31/14</u>	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH <u>4.00</u>	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND <u>4.47</u>	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. <u>10.30</u>	D.O.: VARIES
<input checked="" type="checkbox"/> TURB <u>0.0</u>	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	

⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

AT

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

<p style="font-size: 1.5em; margin: 0;"><i>None</i></p>	

SIGNED *D. Mox* DATE 03/26/14

CHECKED BY *S. Pawlitzky* DATE 5/7/14



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21205
Description Horiba U-52
Calibrated 4/14/2014 12:02:34PM

Manufacturer Horiba	State Certified
Model Number U-5000	Status Pass
Serial Number/ Lot Number TER8DC13	Temp °C 26
Location New Jersey	Humidity % 48
Department	

Calibration Specifications

				Range Acc %			
				Reading Acc %			
				Plus/Minus			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
Group # 1				0.0000			
Group Name PH				3.0000			
Stated Accy Pct of Reading				0.00			
7.01 / 7.01	PH	7.01	PH	7.00	7.00	-0.14%	Pass
4.01 / 4.01	PH	4.01	PH	4.00	4.00	-0.25%	Pass
Group # 2				0.0000			
Group Name Turbidity				3.0000			
Stated Accy Pct of Reading				0.00			
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
800.00 / 800.00	NTU	800.00	NTU	800.00	800.00	0.00%	Pass
Group # 3				0.0000			
Group Name Conductivity				3.0000			
Stated Accy Pct of Reading				0.000			
0.718 / 0.718	ms/cm	0.718	ms/cm	0.718	0.718	0.00%	Pass
5.000 / 5.000	ms/cm	5.000	ms/cm	5.000	5.000	0.00%	Pass
80.000 / 80.000	ms/cm	80.000	ms/cm	80.000	80.000	0.00%	Pass
Group # 4				0.0000			
Group Name Redox (ORP)				3.0000			
Stated Accy Pct of Reading				0.00			
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass
Group # 5				0.0000			
Group Name Dissolved Oxygen Zero				3.0000			
Stated Accy Pct of Reading				0.00			

SP



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20

Windsor, NJ 08561

Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21205
Description Horiba U-52
Calibrated 4/14/2014 12:02:34PM

Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Zero				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	mg/L	0.00	mg/L	0.00	0.00	0.00%	Pass
Group # 6				Range Acc % 0.0000			
Group Name Temperature DO Span				Reading Acc % 0.0000			
Stated Accy Plus / Minus				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
20.00 / 20.00	degrees C	8.84	mg/L	8.84	8.84	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ AUTOCAL: C467883	Auto Cal Solution: 4.01 PH / 0.0 NTU / 4.49 mS/cm	GFS	AUTO CAL. 8483	C467883	4/2/2014	3/31/2015
NJ COND 5K: 3AK269	Conductivity 5000 uS/cm	AquaPhoenix Scientific	5000	3AK269	12/5/2013	11/30/2014
NJ COND 718: 3AK271	Conductivity 718 uS/cm	AquaPhoenix Scientific	718	3AK271	12/5/2013	11/30/2014
NJ COND 80K: 3AK267	Conductivity 80K uS/cm	AquaPhoenix Scientific	80, 000	3AK267	12/2/2013	11/30/2014
NJ DO ZERO: 2011030423	HORIBA SODIUM SULFITE	EMD	SX07853	2011030423	1/20/2014	1/31/2015
NJ ORP 240 MV: 5701	ORP solution 240mv	Hanna	240Mv	5701	9/9/2013	2/28/2018
NJ PH 7: 4AA497	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	4AA497	4/3/2014	1/31/2016
NJ TURB 800 201046-4	Turbidity 800 NTU	Horiba		201046-4		

Sensor Information

<u>Sensor Type</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>Date Installed</u>
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INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21205
Description Horiba U-52
Calibrated 4/14/2014 12:02:34PM

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Lawrence Fischer

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DM, DPS
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL 21205	DATE: 04/17/14

PH CALIBRATION CHECK

pH 7		pH 4 / 10		CAL. RANGE	TIME
(LOT #):	(EXP. DATE):	(LOT #):	(EXP. DATE):		
POST-CAL. READING / STANDARD		POST-CAL. READING / STANDARD			
/	/	/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(°CELSIUS)		
POST-CAL. READING / STANDARD			
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(°CELSIUS)		
POST-CAL. READING / STANDARD			
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING	CAL. RANGE	TIME
(mg/L)		
POST-CAL. READING / STANDARD		
/	<input type="checkbox"/> WITHIN RANGE	
/	<input type="checkbox"/> WITHIN RANGE	
/	<input type="checkbox"/> WITHIN RANGE	
/	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(EXP. DATE):		
POST-CAL. READING / STANDARD			
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION(S)
(LOT #): C467883	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE): 07/31/15	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH 4.00	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND 4.55	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. 11.59	D.O.: VARIES
<input checked="" type="checkbox"/> TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	

⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

meter 019528
 probe 21205

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

None

SIGNED Di. M... DATE 04/17/14

CHECKED BY S. Pawel... DATE 5/7/14



WATER LEVEL DATA

PROJECT NAME: LE Carpenter & Co.				DATE: 03/24/14		
PROJECT NUMBER: 212321.000001.000000				AUTHOR: David Marx, Daniel Shanahan		
WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-19R	0759		7.36		-	
MW-19-5R	0810		7.77		-	
MW-19-6R	0750		8.07		-	
MW-19-7R	0752		7.72		-	
MW-19-8	7:40		7.84		-	
MW-19-12	7:38 7:38	738	7.67		-	
MW-19-13	0811		7.14		-	
MW-19-14	0802		7.22		-	
MW-19-15	0807		7.38		-	
MW-19-16	0805		5.29		-	
MW-19-17	0743		3.50		-	
GEI-3I			12.08	NA	-	
MW-25R	0931		2.31	10.09	-	
MW-21	0929		2.78	18.11	-	
MW-27S	815		8.23	13.06	-	
MW-28S	0913		5.19	17.60	-	
MW-28I	0914		5.01	22.80	-	
MW-29S	1520		6.90	14.60	-	
MW-30S(R)			Frozen			
MW-30I			Frozen			

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

D. Marx 03/24/13
SIGNED DATE

S. Pansky 5/7/14
CHECKED DATE

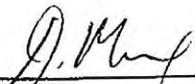


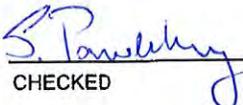
WATER LEVEL DATA

PROJECT NAME: LE Carpenter & Co.	DATE: 03/24/14
PROJECT NUMBER: 212321.000001.000000	AUTHOR: David Marx, Daniel Shanahan

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-30D			Frozen	NA		
MW-31s	0902		4.75	10.31	ND	
MW-32s	0920		5.13	10.44	ND	
MW-33s	0925		5.87	10.31	ND	
MW-34s	0913		5.22	AK 10.31	ND	
MW-35s	0917		4.32	10.27	ND	
SW-D-1	1000		2.85	NA		
SW-D-2	1506		2.14	NA	Frozen	
SW-D-3	1509		1.69	NA		
SW-D-4	150		2.25	NA		
SW-D-5	1152		3.16	NA	Frozen	
SW-R-1	1227		2.34	NA		
SW-R-2	1238		2.07	NA		
SW-R-3	1305		1.54	NA		
SW-R-4	1312		2.28	NA		
SW-R-5	1005		1.46	NA		
SW-R-6	1426		NA	NA		
DRC-2	1205		1.36	NA		
SG-R2	10:00		2.05	NA		

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).


 03/24/14
 SIGNED _____ DATE _____


 5/7/14
 CHECKED _____ DATE _____



WATER LEVEL DATA

PROJECT NAME: LE Carpenter & Co.				DATE: 03/24/14		
PROJECT NUMBER: 212321.000001.000000				AUTHOR: David Marx, Daniel Shanahan		
WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-15S	0733		9.73	NA	-	
MW-15I	0735		9.61	NA	-	
MW-17S	9:58		7.48	NA		
MW-12R	9:45		7.14	NA		
MW-9	9:42		4.56	NA		
MW-8	10:38		2.63	20.06		
MW-13S	unable to open	lock		NA		
MW-13I		SAT		NA		
MW-13S (R)		SAT		NA		

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

J. Mat 03/24/14
 SIGNED DATE

S. Pawlenty 5/7/14
 CHECKED DATE



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM, DPS	DATE: 03/24/14
	BY: <u>BP</u>	DATE: <u>5/7/14</u>

SAMPLE ID: <u>SW-D-5</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: <u>1152</u>	DATE: <u>03/24/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
COLOR: _____	ODOR: _____		COLOR: _____	ODOR: _____	
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
			COMMENTS: <u>By DPS</u>		

TIME	PURGE RATE (GPM)	PH	CONDUCTIVITY (UMHOS/CM)	ORP (MV)	DO (MG/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER USED (GAL)	CUMULATIVE PURGE VOLUME (GAL)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>03/25/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>03/25/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM (DPS)	DATE: 03/24/14
	BY: SP	DATE: 5/4/14

SAMPLE ID: DRG-02	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL	<input checked="" type="checkbox"/> OTHER NA
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: 1205	DATE: 03/24/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
VOLUME REMOVED _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____	ODOR: _____	
COLOR: _____	ODOR: _____		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
	TURBIDITY		FILTRATE COLOR: _____	FILTRATE ODOR: _____	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP.		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (L/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (C)	WATER VOLUME (GALLONS)	CUMULATIVE PURGE VOLUME (GALLONS)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____													
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED				NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			
2	40 mL	VOA	E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	1 L	AMBER	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/25/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM, DPS	DATE: 03/24/14
	BY: SP	DATE: 5/7/14

SAMPLE ID: SW-R-1	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: 1227	DATE: 03/24/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____	ODOR: _____	
COLOR: _____	ODOR: _____		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH	CONDUCTIVITY (UMHOS/CM)	ORP (MV)	D.O. (MG/L)	TURBIDITY (NTU)	TEMPERATURE (C)	WELL LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
									INITIAL
(The rest of the table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____										
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					
2	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					
				<input type="checkbox"/> Y	<input type="checkbox"/> N					
				<input type="checkbox"/> Y	<input type="checkbox"/> N					
				<input type="checkbox"/> Y	<input type="checkbox"/> N					
				<input type="checkbox"/> Y	<input type="checkbox"/> N					

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/25/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER:	SIGNATURE: <i>DM</i>	DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM (DPS)	DATE: 03/24/14
BY: <u>PS/7/14</u>		DATE: <u>5/7/14</u>

SAMPLE ID: SW-R-2	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: <u>1238</u>	DATE: <u>03/24/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____		
VOLUME REMOVED: _____ LITERS <input type="checkbox"/> GALLONS			COLOR: _____ ODOR: _____		
COLOR: _____ ODOR: _____			FILTRATE (0.45 µm) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS:					

TIME	PURGE RATE (GPM)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____													
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	40 mL	VOA	E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	1L	AMBER	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SHIPPING METHOD: FEDEX	DATE SHIPPED: <u>03/25/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <u>D. J. P.</u>	DATE SIGNED: <u>03/25/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co. PREPARED: _____ CHECKED: _____
 PROJECT NUMBER: 212321.000001.000000 BY: DM, (DPS) DATE: 03/24/14 BY: SP DATE: 5/7/14

SAMPLE ID: SW-R-3 WELL DIAMETER: 2" 4" 6" OTHER NA
 WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER NA
 SAMPLE TYPE: GW WW SW DI LEACHATE OTHER _____

PURGING: _____ TIME: _____ DATE: _____ SAMPLE TIME: 1305 DATE: 03/24/14
 PURGE METHOD: PUMP BAILER
 PH: _____ SU CONDUCTIVITY: _____ umhos/cm
 ORP: _____ mV DO: _____ mg/L
 DEPTH TO WATER: _____ T/ PVC TURBIDITY: _____ NTU
 NONE SLIGHT MODERATE VERY
 DEPTH TO BOTTOM: _____ T/ PVC
 WELL VOLUME: _____ LITERS GALLONS TEMPERATURE: _____ °C OTHER: _____
 VOLUME REMOVED: _____ LITERS GALLONS COLOR: _____ ODOR: _____
 COLOR: _____ ODOR: _____ FILTRATE (0.45 µm) YES NO
 TURBIDITY: _____
 NONE SLIGHT MODERATE VERY
 FILTRATE COLOR: _____ FILTRATE ODOR: _____
 DISPOSAL METHOD: GROUND DRUM OTHER
 QC SAMPLE: MS/MSD DUP-
 COMMENTS: _____

TIME	PURGE RATE (L/MIN)	PH (GU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER VOLUME FILLED	CUMULATIVE PURGE VOLUME (GALLONS)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX DATE SHIPPED: 03/25/14 AIRBILL NUMBER: 1999-8059-9
 COC NUMBER: _____ SIGNATURE: [Signature] DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM, DPS	DATE: 03/24/14
	BY: Sp	DATE: 5/7/14

SAMPLE ID: SW-R-4	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: 1312	DATE: 03/24/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
COLOR: _____			COLOR: _____	ODOR: _____	
			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (G/MIN)	PH (SU)	CONDUCTIVITY (UMHOS/CM)	ORP (MV)	D.O. (MG/L)	TURBIDITY (NTU)	TEMPERATURE (C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)	INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/25/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <i>D. M. [unclear]</i>	DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM, DPS	DATE: 03/24/14 BY: Sp DATE: 5/4/14

SAMPLE ID: SW-R-6	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING TIME: _____ DATE: _____	SAMPLE TIME: 1456 DATE: 03/24/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER	PH: _____ SU CONDUCTIVITY: _____ umhos/cm
DEPTH TO WATER: _____ T/ PVC	ORP: _____ mV DO: _____ mg/L
DEPTH TO BOTTOM: _____ T/ PVC	TURBIDITY: _____ NTU
WELL VOLUME: <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY
VOLUME REMOVED: <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	TEMPERATURE: _____ °C OTHER: _____
COLOR: _____ ODOR: _____	COLOR: _____ ODOR: _____
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	FILTRATE COLOR: _____ FILTRATE ODOR: _____
	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-
	COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/l)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE SURGE VOLUME (GALLONS)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 % D.O.: +/- 10 % TURB: +/- 10 % or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/25/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <i>D. Murphy</i>	DATE SIGNED: 03/25/14

REVISED 06/2011



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM (DPS)	DATE: 03/26/14
	BY: SP	DATE: 5/7/14

SAMPLE ID: SW-D-4	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

BURGING	TIME:	DATE:	SAMPLE
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER		PH: _____ SU CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC		ORP: _____ mV DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC		TURBIDITY: _____ NTU	
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: _____ °C OTHER: _____	
COLOR: _____ ODOR: _____		COLOR: _____ ODOR: _____	
TURBIDITY		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR: _____ FILTRATE ODOR: _____	
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		CC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- 02 0856	
COMMENTS:			

TIME	BURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL) OR (L)
									INITIAL
(The rest of the table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

NUMBER		SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/26/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER:	SIGNATURE: <i>S. M. f.</i>	DATE SIGNED: 03/26/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM <u>DPS</u>	DATE: 03/26/14
	BY: <u>Sp</u>	DATE: 5/7/14

SAMPLE ID: <u>SW-D-3</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: <u>0856</u>	DATE: <u>03/26/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	TEMPERATURE: _____ °C	OTHER: _____
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____	ODOR: _____	
COLOR: _____			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WELL VOLUME (L)	CUMULATIVE WELLS VOLUME (GALLONS)
									INITIAL
(The rest of the table is crossed out with a diagonal line.)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>03/26/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>03/26/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED:
PROJECT NUMBER: 212321.000001.000000	BY: DM (DPS) DATE: 03/26/14	BY: Sp DATE: 5/7/14

SAMPLE ID: SW-D-2	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: 0903	DATE: 03/26/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
COLOR: _____			COLOR: _____	ODOR: _____	
TURBIDITY			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		FILTRATE ODOR: _____
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> MS/MSD		
COMMENTS:					

TIME	FLOW RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL)
									INITIAL
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.3; font-size: 48px; pointer-events: none;">/</div>									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
4	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
4	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/26/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 03/26/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM (DPS)	DATE: 03/26/14
	BY: SP	DATE: 5/7/14

SAMPLE ID: SW-D-1	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: 0914	DATE: 03/26/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____	ODOR: _____	
COLOR: _____	ODOR: _____		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
									INITIAL
(The rest of the table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____										
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/26/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER:	SIGNATURE: <i>D. M...</i>	DATE SIGNED: 03/26/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 199380.0000.0000	BY: <u>DM, DPS</u> DATE: <u>04/17/14</u>	BY: <u>SP</u> DATE: <u>5/7/14</u>

SAMPLE ID: <u>SW-R-4</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: <u>1234</u>	DATE: <u>04/17/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU CONDUCTIVITY: _____ umhos/cm ORP: _____ mV DO: _____ mg/L		
DEPTH TO WATER: _____ T/ PVC DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS VOLUME REMOVED: <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____ COLOR: _____ ODOR: _____		
COLOR: _____ ODOR: _____ TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um): <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO FILTRATE COLOR: _____ FILTRATE ODOR: _____ QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
(The rest of the table is crossed out with a diagonal line.)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____													
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED				
2	40 mL	VOA	E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N
2	1 L	AMBER	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	N
				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N
				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N
				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N					<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N

SHIPPING METHOD: <u>FedEx</u>	DATE SHIPPED: <u>04/17/14</u>	AIRBILL NUMBER: <u>1999-038099</u>
COC NUMBER: <u>-</u>	SIGNATURE: <u>D. M...</u>	DATE SIGNED: <u>04/17/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co. PREPARED: GHECKED:
 PROJECT NUMBER: 212321.000001.000000 BY: (DM), DPS DATE: 03/24/14 BY: Sp DATE: 5/7/14

SAMPLE ID: MW 345 WELL DIAMETER: 2" 4" 6" OTHER
 WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER
 SAMPLE TYPE: GW WW SW DI LEACHATE OTHER 07437

PURGING TIME: 12:06 DATE: 03/24/14 SAMPLE TIME: 3:15/14 DATE: 03/25/14
 PURGE METHOD: PUMP BLADDER PUMP (QED) PH: 6.79 SU CONDUCTIVITY: 1100 umhos/cm
 BAILER ORP: -60 mV DO: 0.82 mg/L
 DEPTH TO WATER: 5.04 T/ PVC TURBIDITY: 13.5 NTU
 NONE SLIGHT MODERATE VERY
 DEPTH TO BOTTOM: 10.34 T/ PVC TEMPERATURE: 3.75 °C OTHER:
 WELL VOLUME: 0.86 LITERS GALLONS COLOR: Clear ODOR: Slight
 VOLUME REMOVED: 2.25 LITERS GALLONS FILTRATE (0.45 um) YES NO
 COLOR: C6 ODOR: Slight TURBIDITY: NONE SLIGHT MODERATE VERY
 DISPOSAL METHOD: GROUND DRUM OTHER
 COMMENTS: Fe= Alk= CO2=

TIME	PURGE RATE (MIN)	PH	CONDUCTIVITY (UMHOS/CM)	ORP (MV)	DO (MG/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WELL LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
12:08	400	6.33	1130	12	6.71	49.3	4.24	5.04	INITIAL
12:11	400	6.60	1120	-4	10.86	40.0	4.15	6.46	
12:16	400	6.77	1120	-52	11.14	19.2	3.80	8.01	3.5L
12:21	400	6.79	1100	-60	10.82	13.5	3.75	9.05	5L
12:27	purge off								Water at pump intake

6.05

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- (E-C-1850), 20 (P-1000) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					

SHIPPING METHOD: FEDEX DATE SHIPPED: 03/25/14 AIRBILL NUMBER: 1999-8059-9
 COC NUMBER: NA SIGNATURE: J. M. DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co. PREPARED: _____ CHECKED: _____
 PROJECT NUMBER: 212321.000001.000000 BY: DM, DPS DATE: 03/24/14 BY: JP DATE: 5/7/14

SAMPLE ID: MW-355 WELL DIAMETER: 2" 4" 6" OTHER _____
 WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER _____
 SAMPLE TYPE: GW WW SW DI LEACHATE OTHER _____

PURGING TIME: 1254 DATE: 03/24/14 SAMPLE TIME: 1287 DATE: 03/25/14
 PURGE METHOD: PUMP BLADDER PUMP (QED) PH: 6.84 SU CONDUCTIVITY: 914 umhos/cm
 BAILER ORP: -84 mV DO: 7.16 mg/L
 DEPTH TO WATER: 5.21 T/ PVC TURBIDITY: 57.9 NTU
 NONE SLIGHT MODERATE VERY
 DEPTH TO BOTTOM: 10.27 T/ PVC TEMPERATURE: 4.62 °C OTHER: _____
 WELL VOLUME: 0.82 LITERS GALLONS COLOR: _____ ODOR: _____
 VOLUME REMOVED: 5 LITERS GALLONS FILTRATE (0.45 um) YES NO
 COLOR: Clear ODOR: Strong TURBIDITY: 13.1
 NONE SLIGHT MODERATE VERY
 DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: Fe= _____ Alk= _____ CO2= _____

TIME	PURGE RATE (L/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	DEPTH (FEET)	GALLONS PURGED	REMARKS
1255	400	6.90	910	-93	6.07	13.1	4.53	5.21		INITIAL
1300	400	6.86	890	-87	6.31	23.6	4.42	6.79	2L	
1305	400	6.86	901	-85	7.49	32.9	4.30	8.13	3.5L	
1310	400	6.84	914	-84	7.16	57.9	4.67	9.09	5L	
1312	pump off									WL at pump intake ↓

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 0.1 COND.: +/- ^{5°C-1000, 20} ₁₀₀₀ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX DATE SHIPPED: 03/25/14 AIRBILL NUMBER: 1999-8059-9
 COC NUMBER: NA SIGNATURE: D. M... DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co. PREPARED BY: DM, DPS CHECKED BY: Sp
 PROJECT NUMBER: 212321.000001.000000 DATE: 03/24/14 DATE: 5/7/14

SAMPLE ID: MW-325 WELL DIAMETER: 2" 4" 6" OTHER
 WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER
 SAMPLE TYPE: GW WW SW DI LEACHATE OTHER

PURGING TIME: 13:07 DATE: 03/24/14 SAMPLE TIME: 09:37 DATE: 03/25/14
 PURGE METHOD: PUMP BLADDER PUMP (QED) BAILER PH: 6.91 SU CONDUCTIVITY: 1180 umhos/cm
 ORP: -79 mV DO: 9.00 mg/L
 DEPTH TO WATER: 5.13 T/ PVC TURBIDITY: 19.3 NTU
 NONE SLIGHT MODERATE VERY
 DEPTH TO BOTTOM: 10.44 T/ PVC TEMPERATURE: 4.20 °C OTHER:
 WELL VOLUME: 0.86 LITERS GALLONS COLOR: clear ODOR: moderate
 VOLUME REMOVED: 1.32 LITERS GALLONS FILTRATE (0.45 um) YES NO
 COLOR: slight black, sheen ODOR: moderate
 TURBIDITY: NONE SLIGHT MODERATE VERY
 FILTRATE COLOR: FILTRATE ODOR:
 QC SAMPLE: MS/MSD DUP.
 DISPOSAL METHOD: GROUND DRUM OTHER COMMENTS: Fe= Alk= CO2=

TIME	PURGE METHOD	PH	CONDUCTIVITY	ORP	DO	TURBIDITY	TEMPERATURE	WELL DEPTH	CUMULATIVE PURGE VOLUME
(MM)	(SU)	(SU)	(umhos/cm)	(mV)	(mg/L)	(NTU)	(°C)	(T/ PVC)	(GAL. OF L)
1348	400	6.88	1180	-83	7.22	49.0	4.44	5.95	INITIAL
1353	400	6.91	1150	-77	9.54	32.0	4.05	7.91	2.5L
1358	400	6.91	1180	-79	9.00	29.3	4.20	9.22	5L
1359	pump off								

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 0.1 COND.: +/- $\frac{5}{20}$ (1000/20) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

CONTAINER USED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate										
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	40 mL	VOA	E	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	1 L	AMBER	A	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SHIPPING METHOD: FEDEX DATE SHIPPED: 03/25/14 AIRBILL NUMBER: 1999-8059-9
 COC NUMBER: NA SIGNATURE: DM DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM <u>(DPS)</u>	DATE: 03/25/14
	BY: <u>SP</u>	DATE: <u>5/7/14</u>

SAMPLE ID: <u>MW-295</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0335</u>	DATE: <u>03/25/14</u>	SAMPLE	TIME: <u>0940</u>	DATE: <u>03/25/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (QED) <input type="checkbox"/> BAILER	PH: <u>6.90</u>	SU: <u>1110</u>	CONDUCTIVITY: <u>1110</u>	umhos/cm	
DEPTH TO WATER: <u>6.90</u> T/ PVC	ORP: <u>-91</u>	mV	DO: <u>2.13</u>	mg/L	
DEPTH TO BOTTOM: <u>14.60</u> T/ PVC	TURBIDITY: <u>21.4</u>	NTU	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>1.25</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>5.44</u>	°C	OTHER:		
VOLUME REMOVED: <u>4</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>Clear</u>	ODOR: <u>none</u>	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
COLOR: <u>Clear</u>	ODOR:	FILTRATE COLOR:	FILTRATE ODOR:		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS: Fe=	Alk=	CO2=		

TIME	PURGE RATE (ML/MIN)	PH	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WELL DEPTH (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
0835	200	6.65	1220	-40	4.61	77.9	3.07	6.90	INITIAL
0840	200	6.85	1150	-86	2.99	103	4.21	6.95	1.25
0845	200	6.87	1140	-97	2.20	800 Flash	5.21	6.97	1.5
						Water boundary			
0850	200	6.85	1130	-97	2.19	640	5.12	6.94	1.75
0855	200	6.87	1140	-97	2.50	131	5.16	6.95	2.0
0900	200	6.88	1140	-96	2.17	72.0	5.20	6.95	2.25
0905	200	6.87	1140	-95	2.35	39.1	5.26	6.94	2.5
0910	200	6.89	1130	-94	3.29	25.3	5.31	6.94	2.75
0915	200	6.89	1130	-93	2.89	22.6	5.36	6.94	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ²⁰(1000) ₍₁₀₀₀₎ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	1L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>03/25/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>03/25/14</u>



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LE Carpenter & Co.		PREPARED		CHECKED	
PROJECT NUMBER: 212321.000001.000000		BY: DM, <u>DPS</u>	DATE: 03/25/14		BY: DATE:

SAMPLE ID: MW-34

TIME	PURGE RATE (ML/MIN)	PH	CONDUCTIVITY (µmho/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
0920	200	6.89	1130	-92	2.11	32.3	5.41	6.95	2.75 2.75
0925	200	6.90	1120	-93	2.01	26.2	5.42	6.94	4.25 2.75
0930	200	6.91	1110	-92	2.14	20.2	5.39	6.94	2.75 3.5
0935	200	6.92	1110	-92	2.04	22.3	5.38	6.95	4.25 3.75
094	200	6.90	1110	-91	2.13	21.4	5.44	6.96	4.25 4.0

SIGNATURE: D. Manf

DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co. PREPARED: _____ CHECKED: _____
 PROJECT NUMBER: 212321.000001.000000 BY: (DM) DPS DATE: 03/24/14 BY: SP DATE: 5/7/14

SAMPLE ID: MW-31S WELL DIAMETER: 2" 4" 6" OTHER _____
 WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER _____
 SAMPLE TYPE: GW WW SW DI LEACHATE OTHER _____

PURGING: TIME: 1424 DATE: 03/24/14 SAMPLE: TIME: 1013 DATE: 03/27/14
 PURGE METHOD: PUMP BLADDER PUMP (QED) PH: 7.52 SU CONDUCTIVITY: 811 umhos/cm
 BAILER ORP: -106 mV DO: 9.14 mg/L
 DEPTH TO WATER: 4.75 T/ PVC TURBIDITY: 10.2 NTU
 NONE SLIGHT MODERATE VERY
 DEPTH TO BOTTOM: 10.35 T/ PVC TEMPERATURE: 3.93 °C OTHER: _____
 WELL VOLUME: 0.91 LITERS GALLONS COLOR: Clear ODOR: moderate
 VOLUME REMOVED: 0.92 LITERS GALLONS FILTRATE (0.45 um) YES NO
 COLOR: Slight Blue ODOR: moderate
 TURBIDITY: NONE SLIGHT MODERATE VERY
 DISPOSAL METHOD: GROUND DRUM OTHER
 COMMENTS: Fe= Alk= CO2=

TIME	PURGE RATE (ML/MIN)	PH	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WELL LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)	
1425	400	7.44	8909	-112	7.37	45.5	4.33	5.00	INITIAL	
1430	400	7.47	8859	-104	10.25	21.8	4.08	6.59	2L	
1435	400	7.48	8815	-100	9.68	11.3	4.07	81.75	3.5L	
1440	400	7.52	8811	-100	9.14	10.2	3.93			
1443	pump all well intake								9.13	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (-1000), 20} ₁₀₀₀₀ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

NUMBER	SIZE	TYPE	PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate			
			PRESERVATIVE	FILTERED	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX DATE SHIPPED: 03/25/14 AIRBILL NUMBER: 1999-8059-9
 COC NUMBER: NA SIGNATURE: [Signature] DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM (DP)	DATE: 03/25/14
	BY: Sp	DATE: 5/7/14

SAMPLE ID: MW-25R	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING TIME: 10:24	DATE: 03/25/14	SAMPLE TIME: 11:24	DATE: 03/25/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER	PH: 7.25	SU	CONDUCTIVITY: 776 umhos/cm
	ORP: -66 mV	DO: 2.55 mg/L	
DEPTH TO WATER: 2.82 TI PVC 2.25	TURBIDITY: 37.6 NTU		
DEPTH TO BOTTOM: 9.87 TI PVC	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: 1.24 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: 7.77 °C	OTHER:	
VOLUME REMOVED: 5 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: None	ODOR: None	
COLOR: Colorless	ODOR: None	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR:	FILTRATE ODOR:
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-	
COMMENTS: Fe= Alk= CO2=			

TIME	PURGE RATE (MIN)	PH	CONDUC (UMHOS/CM)	ORP (MV)	DO (MG/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
10:24	300	7.25	907	-79	4.50	481	4.22	2.88	INITIAL
10:29	300	7.32	785	-79	2.44	257	4.07	2.37	<.25
10:34	300	7.32	776	-79	2.10	243	3.87	2.41	1.9
10:39	300	7.34	775	-79	2.16	152	3.78	2.46	<1.25
10:44	300	7.35	774	-79	2.73	92.2	3.64	2.49	1.55
10:49	300	7.34	777	-75	2.59	52.7	3.59	2.53	2.00
10:54	300	7.34	775	-72	2.57	45.5	3.44	2.57	2.5
10:59	300	7.33	773	-67	2.65	53.6	3.45	2.65	3.0
11:04	300	7.31	771	-66	2.68	54.8	3.48	2.69	3.25
11:09	300	7.29	769	-66	2.34	62.0	3.46	2.75	3.75

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (1000, 25)}/₍₁₀₀₀₎ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP: +/- 0.5°C

BOTTLE/BULK		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/25/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: [Signature]	DATE SIGNED: 03/25/14



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM, DPS DATE: 03/25/14	BY: SP DATE: 5/7/14

SAMPLE ID: W-25R

TIME	PURGE RATE (ML/MIN)	pH	CONDUCTIVITY (µmhos/cm)	ORP (mv)	D.O. (mg/l)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1114	300	7.27	771	-67	2.40	53.1	3.57	2.79	4.0
1114	300	7.27	768	-66	2.74	51.2	3.64	2.83	4.25
1124	300	7.25	770	-66	2.55	37.6	3.77	2.87	5.0

SIGNATURE: J. M. [Signature]

DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DM</u> , DPS	DATE: 03/25/14 BY: <u>SP</u> DATE: <u>5/7/14</u>

SAMPLE ID: <u>MW-281</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1233</u>	DATE: <u>03/25/14</u>	SAMPLE	TIME: <u>1303</u>	DATE: <u>03/25/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER	PH: <u>7.20</u> SU		CONDUCTIVITY: <u>726</u> umhos/cm		
DEPTH TO WATER: <u>5.01</u> T/ PVC	ORP: <u>-141</u> mV		DO: <u>2.29</u> mg/L		
DEPTH TO BOTTOM: <u>22.60</u> T/ PVC	TURBIDITY: <u>8.6</u> NTU		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>2.9</u> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>9.38</u> °C		OTHER: _____		
VOLUME REMOVED: <u>3.4</u> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>Clear</u>		ODOR: <u>None</u>		
COLOR: <u>Clear</u>	ODOR: <u>None</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: Fe= _____ Alk= _____ CO2= _____					

TIME	PURGE RATE (L/MIN)	PH (SU)	CONDUCTIVITY (UMHOS/CM)	ORP (MV)	DO (MG/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER VOLUME (GAL)	CUMULATIVE PURGE VOLUME (GAL)
1234	400	7.20	486	-31	0.13	50.7	6.98	5.11	INITIAL
1239	400	7.12	734	-137	2.47	30.2	9.63	5.14	2.5L
1244	400	7.17	730	-142	1.85	16.4	9.23	5.14	6L
1249	400	7.20	726	-144	2.27	10.5	9.33	5.16	8.5L
1254	400	7.20	725	-142	2.28	9.8	9.34	5.16	10.5L
1259	400	7.20	726	-141	2.29	8.6	9.38	5.17	13L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5(-1000, 20)}{10000}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	1L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>03/25/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>Dr. M...</u>	DATE SIGNED: <u>03/25/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM <u>OPS</u>	DATE: 03/25/14 BY: <u>SP</u> DATE: 5/7/14

SAMPLE ID: MW-08	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

STARTING	TIME: 1207	DATE: 03/25/14	SAMPLE	TIME: 1307	DATE: 03/25/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER	PH: 7.19 SU	CONDUCTIVITY: 267 umhos/cm	ORP: -104 mV	DO: 2.87 mg/L	
DEPTH TO WATER: 2.63 T/ PVC	TURBIDITY: 45.4 NTU	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
DEPTH TO BOTTOM: 20.06 T/ PVC	TEMPERATURE: 5.70 °C	OTHER: _____			
WELL VOLUME: 11.55 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: 5.11 brown	ODOR: None			
VOLUME REMOVED: 4 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
COLOR: 5.14 brown	ODOR: _____				
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR: _____		FILTRATE ODOR: _____	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		COMMENTS: Fe= _____ Alk= _____ CO2= _____	

TIME	LRG (L/MIN)	PH (SU)	COND. (UMHOS/CM)	ORP (MV)	DO (MG/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WELL DEPTH (FEET)	CUMULATIVE SUPPLY VOLUME (GALLONS)
1207	200	7.22	293	-103	10.70	43.2	4.44	2.68	INITIAL
1212	200	7.32	283	-123	3.24	37.4	5.68	2.74	0.25
1217	200	7.30	280	-118	2.86	61.0	5.81	2.93	0.5
1222	200	7.26	279	-116	2.83	53.1	5.85	2.94	0.75
1227	200	7.25	277	-113	3.17	62.0	5.80	2.98	1.25
1232	200	7.23	274	-112	3.01	60.9	5.76	2.96	1.5
1237	200	7.20	273	-110	2.97	56.7	5.72	2.97	1.75
1242	200	7.22	270	-110	2.95	59.4	5.71	2.95	2.00
1247	200	7.21	271	-108	2.93	53.8	5.73	2.94	2.25
1252		7.22	270	-107	2.93	51.9	5.74	2.94	2.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- $\frac{5}{1000}$ (p1000) ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1L	AMBER	A	<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/25/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <u>D. M. J.</u>	DATE SIGNED: 03/25/14



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER: 212321.000001.000000	BY: DM (DPS)	DATE: 03/25/14	BY: JP	DATE: 5/4/14

SAMPLE ID: MW-03

TIME	PIPE DATE (M/M/Y)	PH (SU)	CONDUCTIVITY (umS/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE SURGE VOLUME (GAL OR L)
1257	200	7.20	267	-108	2.88	48.2	5.75	2.97	2.8
1302	200	7.19	265	-105	2.89	46.8	5.68	2.44	3.5
1307	200	7.19	267	-104	2.87	45.6	5.70	2.92	3.75

SIGNATURE: J. Murphy

DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co. PREPARED BY: DM, DPS DATE: 03/25/14 CHECKED BY: SP DATE: 5/7/14

PROJECT NUMBER: 212321.000001.000000

SAMPLE ID: MW-285 WELL DIAMETER: 2" 4" 6" OTHER

WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER

SAMPLE TYPE: GW WW SW DI LEACHATE OTHER

PURGING TIME: 1319 DATE: 03/25/14 SAMPLE TIME: 1343 DATE: 03/25/14

PURGE METHOD: PUMP BLADDER PUMP (QED) PH: 7.19 SU CONDUCTIVITY: 735 umhos/cm

BAILER ORP: -135 mV DO: 7.77 mg/L

DEPTH TO WATER: 5.19 TI PVC TURBIDITY: 9.6 NTU

DEPTH TO BOTTOM: 17.64 TI PVC NONE SLIGHT MODERATE VERY

WELL VOLUME: 2.03 LITERS GALLONS TEMPERATURE: 8.41 °C OTHER:

VOLUME REMOVED 2.71 LITERS GALLONS COLOR: Clear ODOR: none

COLOR: Clear ODOR: none FILTRATE (0.45 um) YES NO

TURBIDITY NONE SLIGHT MODERATE VERY FILTRATE COLOR: FILTRATE ODOR:

DISPOSAL METHOD GROUND DRUM OTHER QC SAMPLE: MS/MSD DUP-

COMMENTS: Fe= Alk= CO2=

TIME	PURGE RATE (MG/MIN)	PH (SU)	CONDUCTIVITY (UMHOS/CM)	ORP (MV)	DO (MG/L)	TURBIDITY (NTU)	TEMPERATURE (C)	WELL LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1221	400	7.29	733	-123	6.36	21.7	7.97	5.01	INITIAL
1326	400	7.24	737	-140	3.45	40.2	8.17	4.99	2 L
1331	400	7.20	733	-136	7.69	30.1	8.45	4.99	5 L
1336	400	7.19	733	-134	7.77	9.8	8.40	4.98	8.5 L
1341	400	7.19	735	-135	7.74	9.6	8.41	4.98	10.5 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (-1000), 20 (-1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

PRESERVED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	1L	AMBER	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: FEDEX DATE SHIPPED: 03/25/14 AIRBILL NUMBER: 1999-8059-9

COC NUMBER: NA SIGNATURE: J. M... DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM (DPS)	DATE: 03/24/14
	BY: SP	DATE: 5/4/14

SAMPLE ID: MW 27S	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1508	DATE: 03/24/14	SAMPLE	TIME: 1455	DATE: 03/25/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	BLADDER PUMP (QED)		PH: 7.36	CONDUCTIVITY: 977 umhos/cm	
			ORP: 38 mV	DO: 10.79 mg/L	
DEPTH TO WATER: 8.29 T/ PVC			TURBIDITY: 143 NTU		
DEPTH TO BOTTOM: 13.06 T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY		
WELL VOLUME: 0.77 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 7.46 °C	OTHER:	
VOLUME REMOVED: 1.75 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: clear	ODOR: none	
COLOR: brn silty	ODOR: none		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR:		
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY			FILTRATE ODOR:		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Fe= Alk= CO2=					

TIME	PURGE RATE (L/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL)
1405	400	7.15	985	206	7.84	242	6.26	8.29	INITIAL
1410	400	7.67	964	142	10.35	233	6.96	9.59	* 0.75
1415	400	7.55	1010	94	10.81	146	7.13	10.71	1.25
1420	400	7.36	977	38	10.79	143	7.46	water at pump	1.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 0.1 COND.: +/- ^{5 (<1000), 20 (>1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate													
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED				NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			
2	40 mL	VOA	E	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	1 L	AMBER	A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SHIPPING METHOD: FEDEX	DATE SHIPPED: 03/25/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>J. M.</i>	DATE SIGNED: 03/25/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM, DPS	DATE: 03/25/14
	BY: <u>SP</u>	DATE: <u>5/7/14</u>

SAMPLE ID: <u>MW-3355</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>10:55</u>	DATE: 03/25/14	SAMPLE	TIME: <u>0750</u>	DATE: 03/26/14
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PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	BLADDER PUMP (QED)	PH: <u>6.81</u> SU	CONDUCTIVITY: <u>691</u> umhos/cm
		ORP: <u>-24</u> mV	DO: <u>9.39</u> mg/L

DEPTH TO WATER: <u>5.72</u> T/ PVC	TURBIDITY: <u>19.3</u> NTU
DEPTH TO BOTTOM: <u>10.31</u> T/ PVC	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY

WELL VOLUME: <u>0.78</u> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>3.93</u> °C
VOLUME REMOVED: <u>0.92</u> LITERS <input checked="" type="checkbox"/> GALLONS	OTHER: _____

COLOR: <u>clear</u>	ODOR: <u>strong</u>	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR: _____

DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS: Fe= _____ Alk= _____ CO2= _____
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TIME	PURGE RATE (MP/MIN)	PH	CONDUC (umhos/cm)	ORP (mV)	DO (mg/L)	TURBID (NTU)	TEMPERATURE (°C)	WELL LEVEL (FEET)	SUMMATIVE PURGE VOLUME (GALLONS)
10:40	400	7.04	722	-48	5.56	6.8	3.76	6.70	INITIAL
10:45	400	6.81	695	-35	9.60	5.9	3.87	7.90	2L
10:50	400	6.81	691	-24	9.39	15.3	3.93	9.11	3.5L
10:52	pump off								

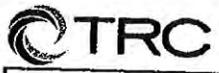
↑
WL at pump intake

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- (p-1000)²⁵ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>03/26/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>03/26/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DM</u> DPS	DATE: 03/26/14
	BY: <u>SP</u>	DATE: <u>5/7/14</u>

SAMPLE ID: RB <u>01</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input checked="" type="checkbox"/> OTHER Rinse Blank	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>0759</u>	DATE: <u>03/26/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER	PH: _____ SU		CONDUCTIVITY: _____ umhos/cm		
DEPTH TO WATER: _____ T/ PVC	ORP: _____ mV		DO: _____ mg/L		
DEPTH TO BOTTOM: _____ T/ PVC	TURBIDITY: _____ NTU				
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY				
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	TEMPERATURE: _____ °C		OTHER: _____		
COLOR: _____	ODOR: _____		COLOR: _____		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER	FILTRATE COLOR: _____		FILTRATE ODOR: _____		
	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	DEPTH TO BOTTOM (FEET)	INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					
				<input type="checkbox"/> Y <input type="checkbox"/> N					

SHIPPING METHOD: FEDEX	DATE SHIPPED: <u>03/26/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <u>D. [Signature]</u>	DATE SIGNED: <u>03/26/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co. PREPARED BY: DM DPS DATE: 03/26/14 CHECKED BY: SP DATE: 5/1/14

PROJECT NUMBER: 212321.000001.000000

SAMPLE ID: ATM-01 WELL DIAMETER: 2" 4" 6" OTHER NA

WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER NA

SAMPLE TYPE: GW WW SW DI LEACHATE OTHER Atmospheric Blank

PURGING TIME: DATE: SAMPLE TIME: 0825 DATE: 03/26/14

PURGE METHOD: PUMP BAILER PH: SU CONDUCTIVITY: umhos/cm

DEPTH TO WATER: T/ PVC ORP: mV DO: mg/L

DEPTH TO BOTTOM: T/ PVC TURBIDITY: NTU

WELL VOLUME: LITERS GALLONS NONE SLIGHT MODERATE VERY

VOLUME REMOVED: LITERS GALLONS TEMPERATURE: °C OTHER:

COLOR: ODOR: FILTRATE (0.45 um) YES NO

TURBIDITY: NONE SLIGHT MODERATE VERY FILTRATE COLOR: FILTRATE ODOR:

DISPOSAL METHOD: GROUND DRUM OTHER QC SAMPLE: MS/MSD DUP-

COMMENTS:

TIME	PURGE RATE (ML/MIN)	PH	CONDUC (UMHOS/CM)	ORP (MV)	D.O. (MG/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	SUMMATIVE PURGE VOLUME (GAL OR L)
									INITIAL
Table content is crossed out with a large diagonal line.									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

NUMBER	SIZE	TYPE	PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -				NUMBER	SIZE	TYPE	PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -					
			PRESERVATIVE	FILTERED	PRESERVATIVE	FILTERED				PRESERVATIVE	FILTERED	PRESERVATIVE	FILTERED		
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N											
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N											
				<input type="checkbox"/> Y <input type="checkbox"/> N											
				<input type="checkbox"/> Y <input type="checkbox"/> N											
				<input type="checkbox"/> Y <input type="checkbox"/> N											
				<input type="checkbox"/> Y <input type="checkbox"/> N											

SHIPPING METHOD: FEDEX DATE SHIPPED: 03/26/14 AIRBILL NUMBER: 1999-8059-9

COC NUMBER: SIGNATURE: [Signature] DATE SIGNED: 03/26/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.		PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000		BY: <u>DM, DPS</u>	DATE: <u>03/26/14</u>
		BY: <u>SP</u>	DATE: <u>5/7/14</u>

SAMPLE ID: RB: WELL DIAMETER: 2" 4" 6" OTHER NA

WELL MATERIAL: PVC SS IRON GALVANIZED STEEL OTHER NA

SAMPLE TYPE: GW WW SW DI LEACHATE OTHER Rinse Blank

PURGING	TIME: <u> </u>	DATE: <u> </u>	SAMPLE	TIME: <u>0840</u>	DATE: <u>03/26/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: <u> </u> SU	CONDUCTIVITY: <u> </u> umhos/cm	
DEPTH TO WATER: <u> </u> T/ PVC			ORP: <u> </u> mV	DO: <u> </u> mg/L	
DEPTH TO BOTTOM: <u> </u> T/ PVC			TURBIDITY: <u> </u> NTU		
WELL VOLUME: <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: <u> </u> °C	OTHER: <u> </u>	
COLOR: <u> </u>			COLOR: <u> </u>	ODOR: <u> </u>	
ODOR: <u> </u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u> </u>	FILTRATE ODOR: <u> </u>	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: <u> </u>					

TIME	PURGE METHOD	DEPTH (ft)	CONDUCTIVITY (umhos/cm)	ORP (mV)	PH	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (feet)	CUMULATIVE DEPTH (feet)	INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:
 pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - <u> </u>									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: <u>03/26/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: <u> </u>	SIGNATURE: <u>D. Paul</u>	DATE SIGNED: <u>03/29/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED BY: DM DPS	DATE: 4/17/14	CHECKED BY: SP	DATE: 5/7/14
PROJECT NUMBER: 212321.000001.000000				

SAMPLE ID: MW-30SR	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1037	DATE: 4/17/14	SAMPLE	TIME: 1101	DATE: 6/17/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: 7.53 SU CONDUCTIVITY: 935 umhos/cm		
DEPTH TO WATER: 1.64 TI PVC			ORP: -169 mV DO: 2.72 mg/L		
DEPTH TO BOTTOM: 12.91 TI PVC			TURBIDITY: 0.10 NTU		
WELL VOLUME: 1.84 LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 7.55 °C OTHER: By PH		
VOLUME REMOVED: 2.90 LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: Clear ODOR: None		
COLOR: Clear ODOR: None			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: FILTRATE ODOR:		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Fe= Alk= CO2=					

TIME	PURGE RATE (ML/MIN)	PH	CONDUCTIVITY (umhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WELL DEPTH (TI)	CUMULATIVE PURGE VOLUME (GAL)
1038	400	5.96	861	-19	4.54	12.5	5.12	1.68	INITIAL
1043	400	7.58	937	-149	3.08	1.3	6.81	1.67	4L
1048	400	7.53	937	-165	2.90	0.3	7.51	1.68	6L
1053	400	7.57	936	-169	2.70	0.10	7.54	1.68	9L
1058	400	7.53	935	-169	2.72	0.10	7.55	1.67	11L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{±(1000), 20} _{±(1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	1L	AMBER	A	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 04/17/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>DM</i>	DATE SIGNED: 04/17/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.		PREPARED		CHECKED	
PROJECT NUMBER: 212321.000001.000000		BY: DM DPS	DATE: 4/17/14	BY: SP	DATE: 5/7/14
SAMPLE ID: MW-301		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING TIME: 1125 DATE: 4/17/14		SAMPLE TIME: 1159 DATE: 4/17/14			
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER		PH: 7.21 SU	CONDUCTIVITY: 907 umhos/cm		
		ORP: -168 mV	DO: 9.17 mg/L		
DEPTH TO WATER: 1.74 T/ PVC		TURBIDITY: 2.1 NTU			
DEPTH TO BOTTOM: 18.10 T/ PVC		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: 2.69 <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: 8.65 °C		OTHER:	
VOLUME REMOVED: 3.96 <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: Clear		ODOR: none	
COLOR: Clear		ODOR: none		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR:		FILTRATE ODOR:	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP-02			
		COMMENTS: Fe=		Alk= CO2=	

TIME	PURGE (MIN)	PH	CONDUCTIVITY (UMHOS/CM)	ORP (MV)	DO (MG/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1127	400	7.01	887	-122	12.40	60.2	9.16	1.74	INITIAL
1132	400	7.01 7.21 ⁵	918	-150	11.61	147	8.81	1.76	3.5 L
1137	400	7.15	914	-159	10.74	45.8	8.82	1.76	6 L
1142	400	7.18	911	-161	9.58	13.9	8.79	1.76	9 L
1147	400	7.20	910	-166	9.44	13.1	8.78	1.76	11.5 L
1152	400	7.19	908	-168	9.14	2.2	8.85	1.76	13.5 L
1157	400	7.21	907	-168	9.17	2.1	8.85	1.76	15 L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- ^{5 (1000), 20 (1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 % or <= 10 TEMP.: +/- 0.5°C

PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	1L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 04/17/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 04/17/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM DPS	DATE: 4/17/14
	BY: SP	DATE: 5/7/14

SAMPLE ID: MW-30D	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING TIME: 4210	DATE: 4/17/14	SAMPLE TIME: 1225	DATE: 4/17/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (DEDICATED) <input type="checkbox"/> BAILER	PH: 7.46	SU	CONDUCTIVITY: 566 umhos/cm
DEPTH TO WATER: 1.52 T/ PVC	ORP: -116 mV	DO: 5.47	mg/L
DEPTH TO BOTTOM: NA T/ PVC	TURBIDITY: 3.0 NTU	<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: — LITERS GALLONS	TEMPERATURE: 11.37 °C	OTHER:	
VOLUME REMOVED: 3.17 LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: clear	ODOR: none	
COLOR: clear	ODOR: none	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY	FILTRATE COLOR:	FILTRATE ODOR:	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP.	COMMENTS: Fe= Alk= CO2=	

TIME	DEPTH (ft)	PH	COND. (µmhos/cm)	ORP (mV)	DO (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (ft)	CUMULATIVE PURGE VOLUME (GAL)
1202	400	7.56	494	-133	5.70	330	7.54	1.53	INITIAL
1207	400	7.57	544	-108	5.68	23.3	11.33	1.53	6L
1212	400	7.52	565	-114	5.46	11.2	11.35	1.53	7.5L
1217	400	7.47	563	-114	5.42	5.8	11.36	1.53	10L
1222	400	7.46	566	-116	5.47	3.0	11.37	1.53	12L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- ^{5 (-1000), 20} ₁₀₀₀₀ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	1L	AMBER	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 04/17/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: J. M. [Signature]	DATE SIGNED: 04/17/14

CHAIN-OF-CUSTODY RECORD

TRACE ID NO.

Page 1 of 2

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Client Name: TRC
 Contact Person: Scott Pawlowski
 Mailing Address: 2025 East Bk Beltline Ave Ste 402
 City, State, Zip Code: Grand Rapids MI 49546
 Phone: 616 975 5415 Fax: 616 975 1098
 Email Address:
 Cell #: DM, DPS Sampled by:
 Project Name & #: LEC 212321.000001.000000
 Billing Address (if different):
 City, State, Zip Code: Windsor CT Phone: PO #:
 Attn:

Report Results To:
 Request for Analytical Services
 Please Sign

TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBERS OF CONTAINERS	RELEASED BY	RECEIVED BY	DATE	TIME	Item #
	03/24/14	1152		SW-D-5	W	4					
	03/24/14	1205		DRK-02	W	4					
	03/24/14	1227		SW-R-1	W	4					
	03/24/14	1238		SW-R-2	W	4					
	03/24/14	1305		SW-R-3	W	4					
	03/24/14	1312		SW-R-4	W	4					
	03/24/14	1456		SW-R-6	W	4					
	03/25/14	0743		MW-345	W	4					
	03/25/14	0746		DUP-01	W	4					
	03/25/14	0817		MW-355	W	4					
											3)
											4)

ANALYSIS REQUESTED

Regulatory Requirements	Turnaround Requirements	Matrix Key
MERA TMDL's <input type="checkbox"/>	Standard <input type="checkbox"/>	S = Soil
Drinking Water <input type="checkbox"/>	3-4 Day (RUSH)* <input type="checkbox"/>	W = Water
NPDES <input type="checkbox"/>	24-48 Hour (RUSH)* <input type="checkbox"/>	SE = Sediment
USACE <input type="checkbox"/>	* Requires prior approval	OI = Oil
Special <input type="checkbox"/>		SO = Solid Waste
		SL = Sludge

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:	
Received on ice: Yes No	Preservative Checked: Yes No N/A
Logged By:	Checked By:
Possible Health Hazard	
REMARKS	
BTEX DLEHP	

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at <http://www.trace-labs.com/cocterms.php>

CHAIN-OF-CUSTODY RECORD

TRACE ID NO.

Page 2 of 2

Client Name: TRC
 Contact Person: Scott Kulickiewicz
 Mailing Address: 2025 East Bellline Ave Ste 402
 City, State, Zip Code: Grand Rapids MI 49516
 Phone: 616 975 5415 Fax: 616 975-1098
 Email Address:
 Cell #: DM, DMS Sampled by:
 Project Name & #: LEC 212321.000001, 000000
 Billing Address (if different): Windsor CT
 City, State, Zip Code:
 Attn: _____ Phone: _____ PO #: _____

Logged By: _____ Checked By: _____
 Received on ice: Yes No Preservative Checked: Yes No N/A
 Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:
 Regulatory Requirements: Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)*
 MIERA TMDL's Drinking Water NPDES USAOE Special
 Turnaround Requirements: Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)*
 Matrix Key: S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste
 WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBERS OF CONTAINERS	RECEIVED BY	RELEASED BY	RECEIVED BY	DATE	TIME	REMARKS
	03/25/14	0820		MW-355 MS/MSD	W	4						
	03/25/14	0937		MW-325	W	4						
	03/25/14	0940		MW-295	W	2						
	03/25/14	1013		MW-315	W	4						
	03/25/14	1124		MW-25R	W	4						
	03/25/14	1303		MW-28I	W	2						
	03/25/14	1307		MW-08	W	2						
	03/25/14	1343		MW-28S	W	2						
	03/25/14	1455		MW-27S	W	4						
				TRIP Blank	B	2						
Item #	RELEASED BY	RECEIVED BY	DATE	TIME	Item #	RECEIVED BY	DATE	TIME				
1)	<u>D Munt</u>	<u>Fed Ex</u>	<u>03/25/14</u>	<u>1600</u>	3)							
2)					4)							

Report Results To:
 Please Sign
 Request for Analytical Services
 Bill To:
 Request for Analytical Services

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at <http://www.trace-labs.com/cocterm.php>

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CHAIN-OF-CUSTODY RECORD

TRACE ID NO.

Page 1 of 1

Client Name: LEC

Contact Person: Scott Pawlikiewicz

Mailing Address: 2025 East Belline Ave Ste 402

City, State, Zip Code: Grand Rapids MI 49456

Phone: 616 975 5715 Fax: 616 975 1098

Email Address:

Cell #: _____ Sampled by: DM DPS

Project Name & #: LEC 21321.000001.0000 00

Billing Address (if different): _____

City, State, Zip Code: Windsor CT

Attn: _____ Phone: _____ PO #: _____

Logged By: _____ Checked By: _____

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time: _____

Regulatory Requirements: MERA TMDL's Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)* NPDES USACE Special

Matrix Key: WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water, SL = Sludge

Turnaround Requirements: Standard, 3-4 Day (RUSH)*, 24-48 Hour (RUSH)*

* Requires prior approval

TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBERS OF CONTAINERS	RELEASED BY	RECEIVED BY	DATE	TIME	REMARKS
	07/26/14	0750		MW-335	W	4					
	07/26/14	0759		RB-01	W	4					
	07/26/14	0825		ATM-01	W	4					
	07/26/14	0840		RD-02	W	4					
	07/26/14	0845		SW-D-4	W	4					
	07/26/14	0847		SW-DUP-02	W	4					
	07/26/14	0856		SW-D-3	W	4					
	07/26/14	0903		SW-D-2	W	4					
	07/26/14	0914		SW-D-1	W	4					
	-	-		TRIP BLANK	B	2					
Item #	RELEASED BY	RECEIVED BY	DATE	TIME	MATRIX	Item #	RELEASED BY	RECEIVED BY	DATE	TIME	REMARKS
1)	<i>D. Mary</i>	<i>Fred FX</i>	07/26/14	1115		3)					
2)						4)					

BTEX DEHP

ANALYSIS REQUESTED

Possible Health Hazard

CHAIN-OF-CUSTODY RECORD

Client Name: TRC	Logged By:	Checked By:
Contact Person: Scott Pawlukiwicz	Received on Ice: Yes No	Preservative Checked: Yes No N/A
Mailing Address: 2025 East Beltline Ave Ste 402	Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:	
City, State, Zip Code: Grand Rapids MI	Regulatory Requirements	Matrix Key
Phone: 616-975-5415 Fax: 616-975-1098	MERA TMDLs <input type="checkbox"/>	S = Soil
Email Address: SPawlukiwicz@trcsolutions.com	Drinking Water <input type="checkbox"/>	W = Water
Cell #: _____	NPDES <input type="checkbox"/>	SE = Sediment
Project Name & #: L-EC 212321.000001.000000	USACE <input type="checkbox"/>	OI = Oil
Billing Address (if different) Windsor CT	Special <input type="checkbox"/>	SO = Solid Waste
City, State, Zip Code _____	Turnaround Requirements	Standard <input type="checkbox"/>
Attn: _____ Phone: _____ PO #: _____	3-4 Day (RUSH)* <input type="checkbox"/>	24-48 Hour (RUSH)* <input type="checkbox"/>
Report Results To: _____	* Requires prior approval	
Request for Analytical Services	ANALYSIS REQUESTED	Possible Health Hazard
TRACE NO.	CLIENT SAMPLE ID	REMARKS
DATE TAKEN	DATE	
TIME TAKEN	TIME	
METS FIELD	RECEIVED BY	
MATERIAL	RELEASED BY	
NUMBERS OF CONTAINERS	RECEIVED BY	
Item #	Item #	
1) D. Mont	RedEx	1
2)		4)
Please Sign	RECEIVED BY	DATE
	DATE	TIME

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at <http://www.trace-labs.com/coctrms.php>

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GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 06/02/14	TIME ARRIVED: 0615
PROJECT NUMBER: 212321.000001.000000	AUTHOR: D. Marx	TIME LEFT: 1600

WEATHER		
TEMPERATURE: <u>80-90</u> °F	WIND: <u>3 W</u> MPH	VISIBILITY: <u>clear</u>

WORK / SAMPLING PERFORMED
Collecting site wide WL's and photos purge MW-30 mounded wells dry

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
Control box for Monsoon has wrong connector	called pipe ordered new one

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
B. Colp	TRC	gave update
S. Paulkiewicz	TRC	

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
12 GW	10 gallons	Prosed Drummed

D. Marx
SIGNED DATE 06/02/14

S. Paulkiewicz
CHECKED BY DATE 6/18/14



GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: <u>06/03/14</u>	TIME ARRIVED: <u>600</u>
PROJECT NUMBER: 212321.000001.000000	AUTHOR: D. Marx	TIME LEFT: <u>1700</u>

WEATHER		
TEMPERATURE: <u>60-90 °F</u>	WIND: <u>1 SW MPH</u>	VISIBILITY: <u>Overcast</u>
WORK / SAMPLING PERFORMED		
<u>Sampled Mw-19-13, Mw-19-5R, Mw-19-7R</u>		
<u>Sampled Mw-315, 325, 335, 345, 355</u>		
<u>Purged Mw-275 dry</u>		
<u>Sampled Mw-25R</u>		
<u>Shipped All of the above and surface water samples</u>		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
<u>Trip Blanks Not in Bottle were shipped</u>	<u>None, informed Lab + TRC</u>

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
<u>GW</u>	<u>20 gallons</u>	<u>Drummed</u>

<u>D. Marx</u>	<u>06/03/14</u>	<u>S Pawelczyk</u>	<u>6/18/14</u>
SIGNED	DATE	CHECKED BY	DATE



GENERAL NOTES

PROJECT NAME: LE Carpenter & Co.	DATE: 06/04/14	TIME ARRIVED: 0730
PROJECT NUMBER: 212321.000001.000000	AUTHOR: D. Marx	TIME LEFT: 1430

WEATHER		
TEMPERATURE: _____ °F	WIND: _____ MPH	VISIBILITY: _____
WORK / SAMPLING PERFORMED		
Sampled MW-08, MW-30I, SW-K-6, AM-02, MW-29S, MW-30SR RB-02, MW-28I, MW-30D, MW-27S, MW-27S		
Site Cleanup		
10 55-gallon Drums Full Purple Water @ 2Q2013 → 2Q2014 on site		

PROBLEMS ENCOUNTERED	CORRECTIVE ACTION TAKEN
None	

COMMUNICATION		
NAME	REPRESENTING	SUBJECT / COMMENTS
B. Culp	TRC	GAVE UPDATE
S. Pawlukiewicz	TRC	

INVESTIGATION DERIVED WASTE SUMMARY		
WASTE MATRIX	QUANTITY	COMMENTS
GW 30	30 gallons	drummed

SIGNED: D. Marx DATE: 06/04/14 CHECKED BY: S. Pawlukiewicz DATE: 6/18/14



EQUIPMENT SUMMARY

PROJECT NAME:	LE Carpenter & Co.	SAMPLER NAME: <i>D. Mark</i>
PROJECT NO.:	212321.000001.000000	

WATER LEVEL MEASUREMENTS COLLECTED WITH:

QED	RENTAL
_____ NAME AND MODEL OF INSTRUMENT	_____ SERIAL NUMBER (IF APPLICABLE)

PRODUCT LEVEL MEASUREMENTS COLLECTED WITH:

QED	PROJECT DEDICATED
_____ NAME AND MODEL OF INSTRUMENT	_____ SERIAL NUMBER (IF APPLICABLE)

DEPTH TO BOTTOM OF WELL MEASUREMENTS COLLECTED WITH:

QED	RENTAL
_____ NAME AND MODEL OF INSTRUMENT	_____ SERIAL NUMBER (IF APPLICABLE)

PURGING METHOD

BLADDER PUMP (QED SAMPLE PRO)	RENTAL
_____ NAME AND MODEL OF PUMP OR TYPE OF BAILER	_____ SERIAL NUMBER (IF APPLICABLE)

SAMPLING METHOD

BLADDER PUMP (QED SAMPLE PRO)	RENTAL
_____ NAME AND MODEL OF PUMP OR TYPE OF BAILER	_____ SERIAL NUMBER (IF APPLICABLE)

GEOTECH DISPOSABLE FILTER	0.45 MICRON
_____ NAME AND MODEL OF FILTERATION DEVICE	_____ FILTER TYPE AND SIZE

DISPOSABLE POLY TUBING	<input checked="" type="checkbox"/> LOW-FLOW SAMPLING EVENT
_____ TUBING TYPE	

PURGE WATER DISPOSAL METHOD

GROUND
 DRUM
 POTW
 POLYTANK
 OTHER _____

DECONTAMINATION AND FIELD BLANK WATER SOURCE

STORE BOUGHT	STORE BOUGHT
_____ POTABLE WATER SOURCE	_____ DI WATER SOURCE

<i>D. Mark</i>	<i>06/04/14</i>
_____ SIGNED	_____ DATE
CHECKED BY	DATE

Standard Order



Pine Environmental Services LLC

Windsor Industrial Park
 92 North Main Street, Bldg. 20, Windsor, NJ 08561
 Toll Free (800) 301-9663 - Local (609) 371-9663
 Fax (609) 371-1663
 www.pine-environmental.com

PACKING

CONTRACT NUMBER: J262898
 CONTRACT DATE: 5/27/2014
 BEGIN DATE: 6/2/2014
 TAKEN BY: JAP



SHIP DATE: 5/30/2014 FRI

BILLED TO: 01-TR06095

TRC ENVIRONMENTAL CORPORATION
 ATTN: ACCOUNTS PAYABLE
 21 GRIFFIN ROAD NORTH
 WINDSOR, CT 06095

SHIP TO:

TRC ENVIRONMENTAL CORP.
 ATTN: DAVID
 41 SPRING STREET
 NEW PROVIDENCE, NJ 07974

CAR1044

CONFIRM TO: DAVID MARX

dmarx@trcsolutions.com;

908-988-1700

PROJECT #:

PO: 69920

Comment: 973-615-6674

CUSTOMER P.O.:
 C212321

SHIP VIA:
 Pine Driver

SHIPPER ID:

TERMS:
 Net 30 Days

ITEM NUMBER	TYPE	WAREHOUSE	UNIT	ORDERED	SHIPPED	BACK ORDER
RWQA53010 Horiba U52-2 Water Quality	R	NJ1	EACH	1.00	<u>25176-21191</u>	
RWQA90536 Flow Cell, Complete U/W-50	R	NJ1	EACH	1.00	<u>✓</u>	
RWQA53010 Horiba U52-2 Water Quality	R	NJ1	EACH	1.00	<u>22197-24330</u>	
RWQA90536 Flow Cell, Complete U/W-50	R	NJ1	EACH	1.00	<u>✓</u>	
RWQA53010 Horiba U52-2 Water Quality	R	NJ1	EACH	1.00	<u>21911-21145</u>	
RWQA90536 Flow Cell, Complete U/W-50	R	NJ1	EACH	1.00	<u>✓</u>	
RWSA23007 Pump-Bladder QED SampPro 1.75 Bladders, Grab plates and O-rings sold separately.	R	NJ1	EACH	1.00	<u>14744</u>	
RWSA23007 Pump-Bladder QED SampPro 1.75 Bladders, Grab plates and O-rings sold separately.	R	NJ1	EACH	1.00	<u>11712</u>	
RWSA23007 Pump-Bladder QED SampPro 1.75 Bladders, Grab plates and O-rings sold separately.	R	NJ1	EACH	1.00	<u>17778</u>	
WSA23005-PINE Poly Bladder Kit - 1/4 x 3/8 Includes: (1)-poly bladder #38225, (1) #35476 O-ring/ (2) #35172 O-ring (1) #35474 O-ring/ (2) #36465 O-ring (1) #38336 Inlet Screen/ (1) #38220 Grab plate	S	SNJ	EACH	3.00	<u>3</u>	

Standard Order



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 Fax (609) 371-1663
 www.pine-environmental.com

PACKING

CONTRACT NUMBER: J262898
 CONTRACT DATE: 5/27/2014
 BEGIN DATE: 6/2/2014
 TAKEN BY: JAP

SHIP DATE: 5/30/2014 FRI

BILLED TO: 01-TR06095

TRC ENVIRONMENTAL CORPORATION
 ATTN: ACCOUNTS PAYABLE
 21 GRIFFIN ROAD NORTH
 WINDSOR, CT 06095

SHIP TO:

TRC ENVIRONMENTAL CORP.
 ATTN: DAVID
 41 SPRING STREET
 NEW PROVIDENCE, NJ 07974

CONFIRM TO: DAVID MARX

dmarx@trcsolutions.com;

908-988-1700

PROJECT #:

69920

Comment: 973-615-6674

CUSTOMER P.O. #:
 C212321

SHIP VIA:
 Pine Driver

SHIPPER ID:

TERMS:
 Net 30 Days

ITEM NUMBER	TYPE	WAREHOUSE	UNIT	ORDERED	SHIPPED	BACK ORDER
WSA23112 Bladder- Poly, SamplePro 1.75"	S	SNJ	EACH	5.00		
RWSA23050 Controller/Compressor QED MP50	R	NJ1	EACH	1.00	19430	
RWSA23050 Controller/Compressor QED MP50	R	NJ1	EACH	1.00	21936	
RWSA23035 WLM- QED MP30-150'	R	NJ1	EACH	1.00	4883	
RWSA23035 WLM- QED MP30-150'	R	NJ1	EACH	1.00	3975	
RWSA90957 Battery, Marine (w/charger)	R	NJ1	EACH	1.00	A05561/904620	
RWSA90957 Battery, Marine (w/charger)	R	NJ1	EACH	1.00	A04621/A04611	
RWSA19010 Pump, 12v, Stainless Steel	R	NJ1	EACH	1.00	8638	
RWSA19010 Pump, 12v, Stainless Steel	R	NJ1	EACH	1.00	14894	
RWSA19015 Controller, w/PwrBoost II/LFS - "LCD"	R	NJ1	EACH	1.00	A00613	
RWSA19015 Controller, w/PwrBoost II/LFS - "LCD"	R	NJ1	EACH	1.00	22606	

PLEASE CALL WHEN YOU ARE DONE WITH THE EQUIPMENT,
 OR EMAIL AT ORDERS@PINE-ENVIRONMENTAL.COM
 BILLING PERIOD WILL END ONCE THE CALL OR EMAIL IS
 RECEIVED. EQUIPMENT MUST BE AVAILABLE FOR PICKUP.

Standard Order



Pine Environmental Services LLC

Windsor Industrial Park
92 North Main Street, Bldg. 20, Windsor, NJ 08561
Toll Free (800) 301-9663 - Local (609) 371-9663
Fax (609) 371-1663
www.pine-environmental.com

PACKING

CONTRACT NUMBER: J262901

CONTRACT DATE: 5/27/2014

BEGIN DATE:

TAKEN BY: JAP

SHIP DATE: 6/2/2014 MON

930

BILLED TO: 01-TR06095

TRC ENVIRONMENTAL CORPORATION
ATTN: ACCOUNTS PAYABLE
21 GRIFFIN ROAD NORTH
WINDSOR, CT 06095

SHIP TO:
TRC ENVIRONMENTAL CORPORATION
ATTN: DAVID MARX
170 N. MAIN ST
WHARTON, NJ 07885

CONFIRM TO: DAVID MARX

dmarx@trcsolutions.com;

(973) 564-6006

PROJECT #:

69920

Comment: 973-615-6674

CUSTOMER P.O.:
C212321

SHIP VIA:
Pine Driver

SHIPPER ID:

TERMS:
Net 30 Days

ITEM NUMBER	TYPE	WAREHOUSE	UNIT	ORDERED	SHIPPED	BACK ORDER
-------------	------	-----------	------	---------	---------	------------

DELIVER BY 930

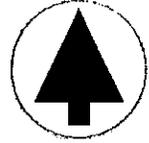
FS13005

S SNJ EACH 10.00

10

Steel Drum - Open Top 55 Gal

SALE



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21191
Description Horiba U-52
Calibrated 5/29/2014 10:48:49AM

Manufacturer Horiba	State Certified
Model Number U-5000	Status Pass
Serial Number/ Lot Number W3FF5AN7	Temp °C 23
Location New Jersey	Humidity % 47
Department	

Calibration Specifications

<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
Group # 1				Range Acc % 0.0000			
Group Name PH				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
7.01 / 7.01	PH	7.01	PH	7.00	7.00	-0.14%	Pass
4.01 / 4.01	PH	4.01	PH	4.00	4.00	-0.25%	Pass
Group # 2				Range Acc % 0.0000			
Group Name Turbidity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
800.00 / 800.00	NTU	800.00	NTU	800.00	800.00	0.00%	Pass
Group # 3				Range Acc % 0.0000			
Group Name Conductivity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.000			
0.718 / 0.718	ms/cm	0.718	ms/cm	0.718	0.718	0.00%	Pass
5.000 / 5.000	ms/cm	5.000	ms/cm	5.000	5.000	0.00%	Pass
80.000 / 80.000	ms/cm	80.000	ms/cm	80.000	80.000	0.00%	Pass
Group # 4				Range Acc % 0.0000			
Group Name Redox (ORP)				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass
Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Zero				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21191
Description Horiba U-52
Calibrated 5/29/2014 10:48:49AM

Group # 5				Range Acc %	0.0000		
Group Name Dissolved Oxygen Zero				Reading Acc %	3.0000		
Stated Accy Pct of Reading				Plus/Minus	0.00		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	mg/L	0.00	mg/L	0.00	0.00	0.00%	Pass
Group # 6				Range Acc %	0.0000		
Group Name Temperature DO Span				Reading Acc %	0.0000		
Stated Accy Plus / Minus				Plus/Minus	0.00		
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
20.00 / 20.00	degrees C	8.84	mg/L	8.84	8.84	0.00%	Pass

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ AUTOCAL: C467883	Auto Cal Solution: 4.01 PH / 0.0 NTU / 4.49 mS/cm	GFS	AUTO CAL. 8483	C467883	5/19/2014	3/31/2015
NJ COND 5K: 4AD414	Conductivity 5000 uS/cm	AquaPhoenix Scientific	5000	4AD414	4/16/2014	4/30/2015
NJ COND 718: 4AD412	Conductivity 718 uS/cm	AquaPhoenix Scientific	718	4AD412	4/23/2014	4/30/2015
NJ COND 80K: 4AD416	Conductivity 80K uS/cm	AquaPhoenix Scientific	80,000	4AD416	4/18/2014	4/30/2015
NJ DO ZERO: 2011030423	HORIBA SODIUM SULFITE	EMD	SX07853	2011030423	1/20/2014	1/31/2015
NJ ORP 240 MV: 6138	ORP solution 240mv	Hanna	240Mv	6138	4/26/2014	5/31/2018
NJ PH 7: 4AC516	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	4AC516	4/22/2014	3/31/2016
NJ TURB 800 201046-4	Turbidity 800 NTU	Horiba		201046-4		

<u>Sensor Information</u>			
<u>Sensor Type</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>Date Installed</u>



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20

Windsor, NJ 08561

Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21191

Description Horiba U-52

Calibrated 5/29/2014 10:48:49AM

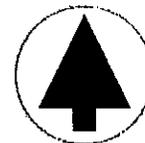
Notes about this calibration

Calibration Result Calibration Successful

Who Calibrated James Camryn Nieves

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance**



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 21145
Description Horiba U-52
Calibrated 5/29/2014 10:49:36AM

Manufacturer Horiba	State Certified
Model Number U-52	Status Pass
Serial Number/ Lot Number W2DTEUPJ	Temp °C 23
Location New Jersey	Humidity % 48
Department	

Calibration Specifications

Group # 1				Range Acc % 0.0000			
Group Name PH				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.01 / 7.01	PH	7.01	PH	7.00	7.00	-0.14%	Pass
4.01 / 4.01	PH	4.01	PH	4.00	4.00	-0.25%	Pass
Group # 2				Range Acc % 0.0000			
Group Name Turbidity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
800.00 / 800.00	NTU	800.00	NTU	800.00	800.00	0.00%	Pass
Group # 3				Range Acc % 0.0000			
Group Name Conductivity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.000			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.718 / 0.718	ms/cm	0.718	ms/cm	0.718	0.718	0.00%	Pass
5.000 / 5.000	ms/cm	5.000	ms/cm	5.000	5.000	0.00%	Pass
80.000 / 80.000	ms/cm	80.000	ms/cm	80.000	80.000	0.00%	Pass
Group # 4				Range Acc % 0.0000			
Group Name Redox (ORP)				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass
Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Zero				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			



INSTRUMENT CALIBRATION REPORT

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Windsor, NJ 08561
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Pine Environmental Services, Inc.

Instrument ID 21145
Description Horiba U-52
Calibrated 5/29/2014 10:49:36AM

Group # 5				Range Acc % 0.0000				
Group Name Dissolved Oxygen Zero				Reading Acc % 3.0000				
Stated Accy Pct of Reading				Plus/Minus 0.00				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
0.00 / 0.00	mg/L	0.00	mg/L	0.00	0.00	0.00%	Pass	

Group # 6				Range Acc % 0.0000				
Group Name Temperature DO Span				Reading Acc % 0.0000				
Stated Accy Plus / Minus				Plus/Minus 0.00				
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>	
20.00 / 20.00	degrees C	8.84	mg/L	8.84	8.84	0.00%	Pass	

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Opened Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ AUTOCAL: C467883	Auto Cal Solution: 4.01 PH / 0.0 NTU / 4.49 mS/cm	GFS	AUTO CAL. 8483	C467883	5/19/2014	3/31/2015
NJ COND 5K: 4AD414	Conductivity 5000 uS/cm	AquaPhoenix Scientific	5000	4AD414	4/16/2014	4/30/2015
NJ COND 718: 4AD412	Conductivity 718 uS/cm	AquaPhoenix Scientific	718	4AD412	4/23/2014	4/30/2015
NJ COND 80K: 4AD416	Conductivity 80K uS/cm	AquaPhoenix Scientific	80,000	4AD416	4/18/2014	4/30/2015
NJ DO ZERO: 2011030423	HORIBA SODIUM SULFITE	EMD	SX07853	2011030423	1/20/2014	1/31/2015
NJ ORP 240 MV: 6138	ORP solution 240mv	Hanna	240Mv	6138	4/26/2014	5/31/2018
NJ PH 7: 4AC516	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	4AC516	4/22/2014	3/31/2016
NJ TURB 800 201046-4	Turbidity 800 NTU	Horiba		201046-4		

Sensor Information			
<u>Sensor Type</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>Date Installed</u>



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

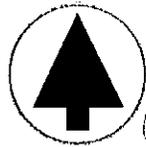
Instrument ID 21145
Description Horiba U-52
Calibrated 5/29/2014 10:49:36AM

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated James Camryn Nieves

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 24330
Description Horiba U-52
Calibrated 5/29/2014 10:50:23AM

Manufacturer Horiba	State Certified
Model Number U-5000	Status Pass
Serial Number/ Lot Number GP72S2G9	Temp °C 23
Location New Jersey	Humidity % 48
Department	

Calibration Specifications

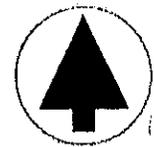
Group # 1				Range Acc % 0.0000			
Group Name PH				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
7.01 / 7.01	PH	7.01	PH	7.00	7.00	-0.14%	Pass
4.01 / 4.01	PH	4.01	PH	4.00	4.00	-0.25%	Pass

Group # 2				Range Acc % 0.0000			
Group Name Turbidity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	NTU	0.00	NTU	0.00	0.00	0.00%	Pass
800.00 / 800.00	NTU	800.00	NTU	800.00	800.00	0.00%	Pass

Group # 3				Range Acc % 0.0000			
Group Name Conductivity				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.718 / 0.718	ms/cm	0.718	ms/cm	0.718	0.718	0.00%	Pass
5.000 / 5.000	ms/cm	5.000	ms/cm	5.000	5.000	0.00%	Pass
80.000 / 80.000	ms/cm	80.000	ms/cm	80.000	80.000	0.00%	Pass

Group # 4				Range Acc % 0.0000			
Group Name Redox (ORP)				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>End As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
240.00 / 240.00	mv	240.00	mv	240.00	240.00	0.00%	Pass

Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Zero				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 24330
Description Horiba U-52
Calibrated 5/29/2014 10:50:23AM

Group # 5				Range Acc % 0.0000			
Group Name Dissolved Oxygen Zero				Reading Acc % 3.0000			
Stated Accy Pct of Reading				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
0.00 / 0.00	mg/L	0.00	mg/L	0.00	0.00	0.00%	Pass
Group # 6				Range Acc % 0.0000			
Group Name Temperature DO Span				Reading Acc % 0.0000			
Stated Accy Plus / Minus				Plus/Minus 0.00			
<u>Nom In Val / In Val</u>	<u>In Type</u>	<u>Out Val</u>	<u>Out Type</u>	<u>Fnd As</u>	<u>Lft As</u>	<u>Dev%</u>	<u>Pass/Fail</u>
20.00 / 20.00	degrees C	8.84	mg/L	8.84	8.84	0.00%	Pass

<u>Test Instruments Used During the Calibration</u>					<u>(As Of Cal Entry Date)</u>	
<u>Test Standard ID</u>	<u>Description</u>	<u>Manufacturer</u>	<u>Model Number</u>	<u>Serial Number / Lot Number</u>	<u>Last Cal Date / Expiration Date</u>	<u>Next Cal Date / Expiration Date</u>
NJ AUTOCAL: C467883	Auto Cal Solution: 4.01 PH / 0.0 NTU / 4.49 mS/cm	GFS	AUTO CAL. 8483	C467883	5/19/2014	3/31/2015
NJ COND 5K: 4AD414	Conductivity 5000 uS/cm	AquaPhoenix Scientific	5000	4AD414	4/16/2014	4/30/2015
NJ COND 718: 4AD412	Conductivity 718 uS/cm	AquaPhoenix Scientific	718	4AD412	4/23/2014	4/30/2015
NJ COND 80K: 4AD416	Conductivity 80K uS/cm	AquaPhoenix Scientific	80,000	4AD416	4/18/2014	4/30/2015
NJ DO ZERO: 2011030423	HORIBA SODIUM SULFITE	EMD	SX07853	2011030423	1/20/2014	1/31/2015
NJ ORP 240 MV: 6138	ORP solution 240mv	Hanna	240Mv	6138	4/26/2014	5/31/2018
NJ PH 7: 4AC516	BUFFER, PH7 YELLOW	AquaPhoenix Scientific	PH7	4AC516	4/22/2014	3/31/2016
NJ TURB 800 201046-4	Turbidity 800 NTU	Horiba		201046-4		

Sensor Information			
<u>Sensor Type</u>	<u>Manufacturer</u>	<u>Serial Number</u>	<u>Date Installed</u>



INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.

92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 24330
Description Horiba U-52
Calibrated 5/29/2014 10:50:23AM

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated James Camryn Nieves

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

**Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance**



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: <i>DM</i>
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL	DATE: <i>06/02/14</i>

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<i>7.01 / 7.00</i>	<i>4.00 / 4.00</i>	<input checked="" type="checkbox"/> WITHIN RANGE	<i>1230</i>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(LOT #):		
(EXP. DATE):	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): <i>C 467883</i> (EXP. DATE): <i>06/2015</i>	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH <i>4.00</i>	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND <i>449</i>	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. <i>9.96</i>	D.O.: VARIES
<input checked="" type="checkbox"/> TURB <i>0.0</i>	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	
<input type="checkbox"/> _____	

NOTES

Pre IO: 21191

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

SIGNED *D. May* DATE *06/02/14*

CHECKED BY *S. Pansky* DATE *6/18/14*



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DM
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL	DATE: 06/03/14

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): C467883 (EXP. DATE): 06/2015	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">CALIBRATED PARAMETERS</th> <th style="width: 50%;">CALIBRATION RANGES ⁽¹⁾</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> pH 3.99</td> <td>pH: +/- 0.2 S.U.</td> </tr> <tr> <td><input checked="" type="checkbox"/> COND 4.48</td> <td>COND: +/- 1% OF CAL. STANDARD</td> </tr> <tr> <td><input type="checkbox"/> ORP</td> <td>ORP: +/- 25 mV</td> </tr> <tr> <td><input checked="" type="checkbox"/> D.O.</td> <td>D.O.: VARIES</td> </tr> <tr> <td><input checked="" type="checkbox"/> TURB 9.83</td> <td>TURB: +/- 5% OF CAL. STANDARD</td> </tr> <tr> <td><input type="checkbox"/> _____</td> <td></td> </tr> <tr> <td><input type="checkbox"/> _____</td> <td></td> </tr> </tbody> </table>	CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾	<input checked="" type="checkbox"/> pH 3.99	pH: +/- 0.2 S.U.	<input checked="" type="checkbox"/> COND 4.48	COND: +/- 1% OF CAL. STANDARD	<input type="checkbox"/> ORP	ORP: +/- 25 mV	<input checked="" type="checkbox"/> D.O.	D.O.: VARIES	<input checked="" type="checkbox"/> TURB 9.83	TURB: +/- 5% OF CAL. STANDARD	<input type="checkbox"/> _____		<input type="checkbox"/> _____		<p>⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER</p>
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾																
<input checked="" type="checkbox"/> pH 3.99	pH: +/- 0.2 S.U.																
<input checked="" type="checkbox"/> COND 4.48	COND: +/- 1% OF CAL. STANDARD																
<input type="checkbox"/> ORP	ORP: +/- 25 mV																
<input checked="" type="checkbox"/> D.O.	D.O.: VARIES																
<input checked="" type="checkbox"/> TURB 9.83	TURB: +/- 5% OF CAL. STANDARD																
<input type="checkbox"/> _____																	
<input type="checkbox"/> _____																	

NOTES

Pipe ID 21191

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

None	

SIGNED: D. M. P. DATE: 06/03/14

CHECKED BY: S. Pansley DATE: 6/18/14



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: JL
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL	DATE: 6/3/14

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.01 / 7.00	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	1300
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): C467883 (EXP. DATE): 06/2015	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH 4.00	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND 4.50	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. 9.63	D.O.: VARIES
<input checked="" type="checkbox"/> TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

None Pro ID: 21147

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

None	
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SIGNED: D. Mump DATE: 06/03/14

CHECKED BY: 6/18/14 J. Parry DATE: _____



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: <u>DM</u>
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL	DATE: <u>06/04/14</u>

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>7.00 / 7.00</u>	<u>3.99 / 4.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1205</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(LOT #):		
(EXP. DATE):	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): <u>C48783</u> (EXP. DATE): <u>06/15</u>	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH <u>4.00</u>	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND <u>4.49</u>	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. <u>9.89</u>	D.O.: VARIES
<input checked="" type="checkbox"/> TURB <u>0.0</u>	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	
<input type="checkbox"/> _____	

(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

Pine ID 21191

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

D. Murphy

SIGNED _____ DATE 06/04/14

S. Pawelby

CHECKED BY _____ DATE 6/18/14



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: JL
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL	DATE: 06/04/14

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.00 / 7.00	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(LOT #):		
(EXP. DATE):	(EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #): C467883	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE): 06/15	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH 4.00	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND 4.49	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. 9.99	D.O.: VARIES
<input checked="" type="checkbox"/> TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

Pipe ID: 21145

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

SIGNED: D. Mont DATE: 06/04/14

CHECKED BY: S. Pawley DATE: 6/18/14



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: LE Carpenter & Co.	MODEL: Horiba U-52	SAMPLER: DPS
PROJECT NO.: 212321.000001.000000	SERIAL #: RENTAL	DATE: 06/04/14

PH CALIBRATION CHECK

pH 7 (LOT #): (EXP. DATE):	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
7.00 / 7.00	4.01 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
POST-CAL. READING / STANDARD			
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):		
POST-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #):	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE):	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH 4.00	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND 4.49	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input checked="" type="checkbox"/> D.O. 10.12	D.O.: VARIES
<input checked="" type="checkbox"/> TURB 0.0	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

Pine ID: 24330

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

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SIGNED: D. Mend DATE: 06/04/14

CHECKED BY: S. Pauley DATE: 6/18/14



WATER LEVEL DATA

PROJECT NAME: LE Carpenter & Co.	DATE: 06/02/14
PROJECT NUMBER: 212321.000001.000000	AUTHOR: D. Shanley

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-30D	0932		2.44	NA		
MW-31s	0746		4.99	10.35	ND	
MW-32s	0742		6.25	10.44	6.20	
MW-33s	0744		6.26	10.31	ND	
MW-34s	0740		5.95	10.34	ND	
MW-35s	0738		4.08	10.35	ND	
SW-D-1	1340		3.08	NA		
SW-D-2	1320		2.21	NA		
SW-D-3	1313		2.03	NA		
SW-D-4	1301		2.59 1.81	NA		
SW-D-5	0915		3.62	NA		
SW-R-1	0939		2.74	NA		
SW-R-#3	0956		1.89	NA		
SW-R-#2	1020		2.59	NA		
SW-R-4	1008		2.59	NA		
SW-R-5	0805		1.79	NA		
SW-R-6			NA	NA		
DRC-2	0928		1.79	NA		
SG-R2				NA		

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

D. Shanley
SIGNED

06/04/14
DATE

S. Pausley
CHECKED

6/15/14
DATE



WATER LEVEL DATA

PROJECT NAME: LE Carpenter & Co.	DATE: 06/04/14
PROJECT NUMBER: 212321.000001.000000	AUTHOR: D. Shaughan

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-15S	0817		9.73	NA		
MW-15I	0818		9.69	NA		
MW-17S				NA		
MW-12R	1034		7.63	NA		
MW-9	1031		3.54	NA		
MW-8	1003		2.92	20.05		
MW-13S	Unable to open lock			NA		
MW-13I		↓		NA		
MW-13S (R)				NA		

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR (E.G., 1.1 + 0.00 T/PVC).

SIGNED: D. Shaughan DATE: 06/04/14 CHECKED: S. Purdy DATE: 6/18/14



WATER LEVEL DATA

PROJECT NAME: LE Carpenter & Co.	DATE: 06/02/2014
PROJECT NUMBER: 212321.000001.000000	AUTHOR: D. Shankan

WELL LOCATION	TIME	REFERENCE	DEPTH TO WATER (FEET)	DEPTH TO BOTTOM (FEET)	DEPTH TO PRODUCT (FEET)	WATER ELEVATION
MW-19R	0758		7.80			
MW-19-5R	0744		8.10	15.97		
MW-19-6R	0725		8.35	15.55	ND -	
MW-19-7R	0729		7.96	15.52	ND -	
MW-19-8	0735		8.19			
MW-19-12	0740		7.39			
MW-19-13	0747		7.39	15.04		
MW-19-14	0753		7.65			
MW-19-15	0756		7.96			
MW-19-16	0750		6.12			
MW-19-17	0732		8.77			
GEI-3I	0808		12.07	NA		
MW-25R	0907		2.22	10.60	-	
MW-21	1058		2.81	-	-	
MW-27S	0812		8.43	17.10	-	
MW-28S	0825		5.25	17.64	-	
MW-28I	0826		5.14	22.87	-	
MW-29S	0822		7.02	14.60	-	
MW-30S(R)	0835		2.54	12.91	-	
MW-30I	0833		2.63	18.10	-	

ALL WATER LEVELS MUST INCLUDE REFERENCE POINT AND TAPE CORRECTION FACTOR
(E.G., 1.1 + 0.00 T/PVC).

D. Shankan
SIGNED

06/04/14
DATE

B. Pawley
CHECKED

6/18/14
DATE



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS/SL</u> DATE: <u>06/02/14</u>	BY: <u>Sp</u> DATE: <u>6/18/14</u>

SAMPLE ID: SW-D-5	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: <u>0919</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____		
COLOR: _____ ODOR: _____			COLOR: _____ ODOR: _____		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 µm) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
(This table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FEDEX	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <u>D. Manf</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS/SL</u> DATE: 06/02/14	BY: <u>SP</u> DATE: <u>6/11/14</u>

SAMPLE ID: DRC-02	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME:	DATE:	SAMPLE	TIME: <u>0926</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
COLOR: _____ ODOR: _____			FILTRATE (0.45 µm) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
(The rest of the table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>D. Murr</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS/JL</u>	DATE: <u>06/02/14</u>
	BY: <u>3p</u>	DATE: <u>6/18/14</u>

SAMPLE ID: SW-R-1	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>0940</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____		
COLOR: _____			ODOR: _____		
TURBIDITY			FILTRATE (0.45 µm) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		
			FILTRATE ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 2em;">/</div>									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED:		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N						<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS/JL</u>	DATE: <u>06/02/14</u>
	BY: <u>3p</u>	DATE: <u>6/18/14</u>

SAMPLE ID: SW-R-3	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>0957</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			OTHER: _____		
COLOR: _____			ODOR: _____		
ODOR: _____			FILTRATE (0.45 µm) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		
			FILTRATE ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
/									
/									
/									
/									
/									
/									
/									
/									
/									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>D. M. [Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS/JL</u> DATE: 06/02/14	BY: <u>JP</u> DATE: 6/18/14

SAMPLE ID: SW-R-4	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER _____	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>1010</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP _____ <input type="checkbox"/> BAILER _____			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
COLOR: _____ ODOR: _____			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP. _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
(The rest of the table is crossed out with a diagonal line.)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DRS/JL</u> DATE: <u>06/02/14</u>	BY: <u>3P</u> DATE: <u>6/18/14</u>

SAMPLE ID: SW-R-2	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>/</u>	DATE: <u>/</u>	SAMPLE	TIME: <u>04571043</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____		
VOLUME REMOVED _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____ ODOR: _____		
COLOR: _____ ODOR: _____			FILTRATE (0.45 µm) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
/									
/									
/									
/									
/									
/									
/									
/									
/									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10 % COND.: +/- 10 % ORP: +/- 10 % D.O.: +/- 10 % TURB: +/- 10 % or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DJS/TL</u> DATE: 06/02/14	BY: <u>3p</u> DATE: <u>6/18/14</u>

SAMPLE ID: SW-D-4	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: _____ DATE: _____	SAMPLE	TIME: <u>1304</u> DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER		PH: _____ SU	CONDUCTIVITY: _____ umhos/cm
		ORP: _____ mV	DO: _____ mg/L
DEPTH TO WATER: _____ T/ PVC		TURBIDITY: _____ NTU	
DEPTH TO BOTTOM _____ T/ PVC		<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		TEMPERATURE: _____ °C	OTHER: _____
VOLUME REMOVED _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS		COLOR: _____	ODOR: _____
COLOR: _____	ODOR: _____	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY		FILTRATE COLOR: _____	FILTRATE ODOR: _____
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____	
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER		COMMENTS:	

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
<i>(Table content is crossed out with a diagonal line)</i>									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DJS/JL</u> DATE: 06/02/14	BY: <u>JP</u> DATE: 06/18/14

SAMPLE ID: SW-D-3	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>1315</u>	DATE: 06/03/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____ ODOR: _____		
COLOR: _____ ODOR: _____			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
INITIAL									
(This table is mostly blank with a diagonal line drawn across it.)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FEDEX	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <u>D. Muff</u>	DATE SIGNED: <u>06/07/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DS/SL</u>	DATE: 06/02/14
	BY: <u>JP</u>	DATE: <u>6/2/14</u>

SAMPLE ID: SW-D-2	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>1322</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____ ODOR: _____		
COLOR: _____ ODOR: _____			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- 01		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
4	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
4	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS/JL</u> DATE: <u>06/02/14</u>	BY: <u>Sp</u> DATE: <u>6/18/14</u>

SAMPLE ID: SW-D-1	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>/</u>	DATE: <u>/</u>	SAMPLE	TIME: <u>1342</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO BOTTOM: _____ T/ PVC			TURBIDITY: _____ NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C	OTHER: _____	
COLOR: _____ ODOR: _____			COLOR: _____	ODOR: _____	
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FILTRATE COLOR: _____	
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE ODOR: _____	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____	
			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
(The rest of the table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DM</u>	DATE: <u>06/04/14</u>
	BY: <u>Sp</u>	DATE: <u>6/18/14</u>

SAMPLE ID: SW-R-6	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input checked="" type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER _____	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>0937</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP _____ <input type="checkbox"/> BAILER _____			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____ ODOR: _____		
COLOR: _____ ODOR: _____			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
INITIAL									
(The rest of the table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.0000001.000000	BY: <u>DM</u> DATE: <u>06/02/14</u>	BY: <u>3p</u> DATE: <u>6/18/14</u>

SAMPLE ID: <u>RB-01</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input checked="" type="checkbox"/> OTHER <u>Rinse Blank</u>	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>1430</u>	DATE: <u>06/02/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER	PH: _____ SU		CONDUCTIVITY: _____ umhos/cm		
DEPTH TO WATER: _____ T/ PVC	ORP: _____ mV		DO: _____ mg/L		
DEPTH TO BOTTOM: _____ T/ PVC	TURBIDITY: _____ NTU				
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY				
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS	TEMPERATURE: _____ °C		OTHER: _____		
COLOR: _____	ODOR: _____		FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY		FILTRATE COLOR: _____		FILTRATE ODOR: _____	
<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____			
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			COMMENTS: _____		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
<div style="border: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black;"></div> </div>									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <u>D. Muf</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM DATE: 06/03/14	BY: Sp DATE: 6/18/14

SAMPLE ID: MW-19-7R	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 0848	DATE: 06/03/14	SAMPLE	TIME: 0908	DATE: 06/03/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER	PH: 6.34 SU CONDUCTIVITY: 2440 umhos/cm		ORP: 20 mV DO: 7.41 mg/L		
DEPTH TO WATER: 7.96 T/ PVC	TURBIDITY: 0.5 NTU		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: 19.92 T/ PVC	TEMPERATURE: 12.95 °C		OTHER: _____		
WELL VOLUME: 1.23 LITERS <input type="checkbox"/> 7 GALLONS <input checked="" type="checkbox"/>	COLOR: Clear		ODOR: None		
VOLUME REMOVED: 2.9 LITERS <input type="checkbox"/> 7 GALLONS <input checked="" type="checkbox"/>	FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FILTRATE COLOR: Clear FILTRATE ODOR: None		
COLOR: Clear	ODOR: None		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER				
COMMENTS: Fe= _____ Alk= 70 CO2= 30					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0848	400	5.76	2240	150	7.90	31.6	15.78		INITIAL
0858	400	6.28	2400	96	8.30	11.5	13.21	8.13	3L
0859	400	6.31	2440	33	7.91	3.5	12.80	8.13	6L
0900	400	6.35	2440	21	7.42	0.6	13.02	8.13	8.5L
0905	400	6.34	2440	20	7.41	0.5	12.95	8.13	11L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5(-1000), 20}{(-1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 06/03/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>D. Mum</i>	DATE SIGNED: 06/03/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>JL</u> DATE: 06/3/14	BY: <u>3p</u> DATE: 6/18/14

SAMPLE ID: MW-19-13	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0925</u>	DATE: <u>06/3/14</u>	SAMPLE	TIME: <u>0930</u>	DATE: <u>06/3/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	BLADDER PUMP (QED)		PH: <u>6.43</u>	SU CONDUCTIVITY: <u>835</u> umhos/cm	
DEPTH TO WATER: <u>7.39</u> T/ PVC			ORP: <u>-48</u> mV	DO: <u>1.61</u> mg/L	
DEPTH TO BOTTOM: <u>15.04</u> T/ PVC			TURBIDITY: <u>2.4</u> NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: <u>1.25</u> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>11.08</u> °C	OTHER: <u>JL</u>	
VOLUME REMOVED: <u>6.5</u> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>CLEAR</u>	ODOR: <u>none</u>	
COLOR: <u>slight brown</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>clear</u>	FILTRATE ODOR: <u>none</u>	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Fe= <u>18</u> Alk= <u>140</u> CO2= <u>24</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
<u>0825</u>	<u>400</u>	<u>5.70</u>	<u>530</u>	<u>181</u>	<u>1.10</u>	<u>22.4</u>	<u>11.04</u>	<u>7.39</u>	INITIAL
<u>0830</u>	<u>400</u>	<u>5.85</u>	<u>535</u>	<u>149</u>	<u>0.77</u>	<u>34.5</u>	<u>10.89</u>	<u>8.42</u>	0.50 0.50 GAL
<u>0835</u>	<u>400</u>	<u>5.96</u>	<u>538</u>	<u>122</u>	<u>1.82</u>	<u>45.4</u>	<u>10.86</u>	<u>8.69</u>	1.00 1.00 GAL
<u>0840</u>	<u>400</u>	<u>5.90</u>	<u>544</u>	<u>104</u>	<u>1.29</u>	<u>53.0</u>	<u>10.81</u>	<u>8.87</u>	<u>1.75</u> GAL
<u>0845</u>	<u>400</u>	<u>5.95</u>	<u>556</u>	<u>80</u>	<u>0.91</u>	<u>59.2</u>	<u>10.76</u>	<u>9.11</u>	<u>2.25</u> GAL
<u>0850</u>	<u>400</u>	<u>6.03</u>	<u>573</u>	<u>73</u>	<u>0.90</u>	<u>59.4</u>	<u>10.80</u>	<u>9.26</u>	<u>3.0</u> GAL
<u>0855</u>	<u>400</u>	<u>6.08</u>	<u>599</u>	<u>51</u>	<u>1.54</u>	<u>41.5</u>	<u>10.87</u>	<u>9.52</u>	<u>3.5</u> GAL
<u>0900</u>	<u>400</u>	<u>6.17</u>	<u>665</u>	<u>38</u>	<u>1.86</u>	<u>20.0</u>	<u>10.84</u>	<u>9.62</u>	<u>4.0</u> GAL
<u>0905</u>	<u>400</u>	<u>6.23</u>	<u>767</u>	<u>8</u>	<u>1.65</u>	<u>7.6</u>	<u>10.82</u>	<u>9.70</u>	<u>4.5</u> GAL
<u>0910</u>	<u>400</u>	<u>6.33</u>	<u>811</u>	<u>-21</u>	<u>1.40</u>	<u>4.5</u>	<u>10.92</u>	<u>9.72</u>	<u>5.0</u> GAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (<1000), 20 (>1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
<u>2</u>	<u>40 mL</u>	<u>VOA</u>	<u>E</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>1</u>	<u>125 mL</u>	<u>PLASTIC</u>	<u>B</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
<u>2</u>	<u>40 mL</u>	<u>VOA</u>	<u>A</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>1</u>	<u>100 mL</u>	<u>PLASTIC</u>	<u>F</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
<u>1</u>	<u>500mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
<u>1</u>	<u>125 mL</u>	<u>PLASTIC</u>	<u>C</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

(CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LE Carpenter & Co.	PREPARED		CHECKED	
PROJECT NUMBER: 212321.000001.000000	BY: <u>SL</u>	DATE: <u>6/3/14</u>	BY: <u>Sp</u>	DATE: <u>6/12/14</u>

SAMPLE ID: MW-19-13

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0915	400	6.38	821	-31	1.46	3.8	11.02	9.73	5.5 GAL
0930	400	6.41	829	-41	1.53	2.7	11.06	9.74	6.0 GAL
0925	400	6.43	835	-48	1.61	2.4	11.08	9.74	6.5 GAL

SIGNATURE:

DATE SIGNED: 06/03/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DM</u> DATE: <u>06/02/14</u>	BY: <u>Sp</u> DATE: <u>6/18/14</u>

SAMPLE ID: <u>MW-365 345</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0811</u>	DATE: <u>06/02/14</u>	SAMPLE	TIME: <u>1058</u>	DATE: <u>06/03/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: <u>6.92</u> SU CONDUCTIVITY: <u>895</u> umhos/cm		
DEPTH TO WATER: <u>5.95</u> T/ PVC			ORP: <u>-115</u> mV DO: <u>6.91</u> mg/L		
DEPTH TO BOTTOM: <u>10.34</u> T/ PVC			TURBIDITY: <u>2.2</u> NTU		
WELL VOLUME: <u>0.72</u> LITERS <input checked="" type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: <u>1.3</u> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>13.61</u> °C OTHER: <u>By DM</u>		
COLOR: <u>Clear</u> ODOR: <u>slight</u>			COLOR: <u>Clear</u> ODOR: <u>slight</u>		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: <u>Clear</u> FILTRATE ODOR: <u>no</u>		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
			COMMENTS: Fe= <u>4</u> Alk= <u>350</u> CO2= <u>100</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0813	300	7.07	908	-109	6.06	10.2	14.28	6.26	INITIAL
0817	300	6.85	947	-105	4.76	7.0	13.00	7.19	2L
0823	300	6.88	970	-114	7.77	3.7	13.22	8.49	3.5L
0828	300	6.92	895	-115	6.91	2.2	13.61	9.12	4.925L
							at pump broke		5.5L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- $\frac{5(-1000), 20}{(1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>D. Murphy</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>SL</u> DATE: 06/03/14	BY: <u>SP</u> DATE: <u>6/18/14</u>

SAMPLE ID: MW-19-5R	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1050	DATE: 06/3/14	SAMPLE	TIME: 1120	DATE: 06/3/14
PURGE <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) METHOD: <input type="checkbox"/> BAILER			PH: <u>6.74</u> SU CONDUCTIVITY: <u>1030</u> umhos/cm		
DEPTH TO WATER: <u>8.10</u> T/ PVC			ORP: <u>-128</u> mV DO: <u>0.59</u> mg/L		
DEPTH TO BOTTOM: <u>15.97</u> T/ PVC			TURBIDITY: <u>0.0</u> NTU		
WELL VOLUME: <u>1.27</u> <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED <u>2.75</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>11.60</u> °C OTHER: <u>SL</u>		
COLOR: <u>CLEAR</u> ODOR: <u>none</u>			COLOR: <u>CLEAR</u> ODOR: <u>none</u>		
TURBIDITY			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>CLEAR</u> FILTRATE ODOR: <u>none</u>		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Fe= <u>16</u> Alk= <u>180</u> CO2= <u>45</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1050	400	6.83	1100	-103	2.86	1.2	16.99	8.10	INITIAL
1055	400	6.80	1060	-110	0.73	0.0	12.30	8.34	0.5 GAL
1100	400	6.74	1040	-115	0.80	0.0	12.10	8.35	1.0 GAL
1105	400	6.71	996	-118	0.73	0.0	11.79	8.35	1.5 GAL
1110	400	6.72	993	-122	0.69	0.0	11.68	8.35	2.0 GAL
1115	400	6.71	1000	-124	0.63	0.0	11.61	8.35	2.25 GAL
1120	400	6.74	1030	-128	0.59	0.0	11.60	8.35	2.75 GAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (-1000), 20}/₍₊₁₀₀₀₎ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10 % or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		

SHIPPING METHOD: FEDEX	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DM</u> DATE: <u>06/02/14</u>	BY: <u>SP</u> DATE: <u>06/03/14</u>

SAMPLE ID: <u>MW-348355</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0918</u>	DATE: <u>06/02/14</u>	SAMPLE	TIME: <u>1212</u>	DATE: <u>06/03/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (QED) <input type="checkbox"/> BAILER	PH: <u>6.84</u> SU CONDUCTIVITY: <u>828</u> umhos/cm		ORP: <u>-93</u> mV DO: <u>9.59</u> mg/L		
DEPTH TO WATER: <u>4.08</u> TI PVC	TURBIDITY: <u>17.5</u> NTU		<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: <u>10.35</u> TI PVC	TEMPERATURE: <u>12.12</u> °C OTHER: <u>By DM</u>		COLOR: <u>clear</u> ODOR: <u>strong</u>		
WELL VOLUME: <u>1.0</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FILTRATE COLOR: <u>clear</u> FILTRATE ODOR: <u>strong</u>		
VOLUME REMOVED: <u>2.3</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- <u>02</u>		
COLOR: <u>slight black silty</u> ODOR: <u>strong</u>	DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER				
COMMENTS: Fe= <u>20</u> Alk= <u>180</u> CO2= <u>70</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
<u>0918</u>	<u>300</u>	<u>6.01</u>	<u>707</u>	<u>-30</u>	<u>8.90</u>	<u>19.1</u>	<u>13.68</u>	<u>5.25</u>	INITIAL
<u>0926</u>	<u>300</u>	<u>6.40</u>	<u>785</u>	<u>-63</u>	<u>9.81</u>	<u>20.4</u>	<u>12.41</u>	<u>6.13</u>	<u>2L</u>
<u>0931</u>	<u>300</u>	<u>6.57</u>	<u>805</u>	<u>-76</u>	<u>9.18</u>	<u>23.3</u>	<u>12.35</u>	<u>7.26</u>	<u>5L</u>
<u>0936</u>	<u>300</u>	<u>6.77</u>	<u>829</u>	<u>-90</u>	<u>9.51</u>	<u>29.2</u>	<u>12.19</u>	<u>7.92</u>	<u>7</u>
<u>0941</u>	<u>300</u>	<u>6.78</u>	<u>832</u>	<u>-90</u>	<u>9.55</u>	<u>33.4</u>	<u>12.22</u>	<u>8.56</u>	<u>9</u>
<u>0946</u>	<u>300</u>	<u>6.84</u>	<u>828</u>	<u>-93</u>	<u>9.59</u>	<u>17.5</u>	<u>12.12</u>	<u>9.05</u>	<u>at pump intake 910</u>

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (-1000, 20)}/₍₋₁₀₀₀₎ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate												
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N					
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N					
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N					

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/03/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/03/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM DATE: 06/02/14	BY: JP DATE: 6/18/14

SAMPLE ID: MW-32S	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 0951	DATE: 06/02/14	SAMPLE	TIME: 1344	DATE: 06/03/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: 6.97 SU CONDUCTIVITY: 1060 umhos/cm		
DEPTH TO WATER: 6.25 T/ PVC			ORP: -125 mV DO: 5.20 mg/L		
DEPTH TO BOTTOM: 10.44 T/ PVC			TURBIDITY: 10.1 NTU		
WELL VOLUME: 0.68 LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 0.92 LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: 15.90 °C OTHER: by DM		
COLOR: silty brk ODOR: moderate			COLOR: clear ODOR: moderate		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: clear FILTRATE ODOR: moderate		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
			COMMENTS: Fe= NA Alk= NA CO2= NA		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0953	300	7.02	1020	-117	5.81	27.3	16.31	6.38	INITIAL
0958	300	6.90	1060	-125	5.37	20.4	14.42	8.88	2.5L
1007	300	6.77	1060	-125	5.20	10.1	15.90	9.16	5.5L
Not enough volume for Fe, Alk. and CO2 at pump intake									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5 (<1000), 20 (>1000)}{(>1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: FEDEX	DATE SHIPPED: 06/03/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 06/07/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: JL DATE: 06/3/14	BY: Sp DATE: 6/18/14

SAMPLE ID: MW-25R	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1308	DATE: 06/3/14	SAMPLE	TIME: 1408	DATE: 06/03/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: 7.23 SU CONDUCTIVITY: 710 umhos/cm		
DEPTH TO WATER: 2.33 T/ PVC			ORP: -129 mV DO: 5.50 mg/L		
DEPTH TO BOTTOM: 10.60 T/ PVC			TURBIDITY: 16.8 NTU		
WELL VOLUME: 1.73 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 6.25 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 12.64 °C OTHER: JL		
COLOR: LIGHT BROWN ODOR: NONE			COLOR: CLEAR ODOR: NONE		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input checked="" type="checkbox"/> VERY			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: CLEAR FILTRATE ODOR: NONE		
			QC SAMPLE: <input checked="" type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
			COMMENTS: Fe= 4 Alk= 125 CO2= 185 13.5		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1308	400	7.31	719	-143	3.15	375	16.50	2.33	INITIAL
1313	400	7.30	717	-147	3.14	406	13.25	2.45	0.5 GAL
1318	400	7.29	714	-143	2.86	447	13.38	2.64	1.0 GAL
1323	400	7.25	715	-138	1.89	232	13.22	2.90	1.5 GAL
1328	400	7.26	718	-139	4.90	115	13.15	3.09	2.25 GAL
1333	400	7.24	718	-136	4.92	208	13.10	3.18	2.75 GAL
1338	400	7.22	716	-136	4.90	131	13.02	3.28	3.25 GAL
1343	400	7.25	713	-135	4.98	50.9	12.71	3.38	3.75 GAL
1348	400	7.26	715	-135	5.08	26.7	12.75	3.38	4.25 GAL
1353	400	7.23	715	-135	5.31	25.6	12.83	3.42	4.75 GAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5(-1000), 20}{(6-1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FEDEX	DATE SHIPPED: 06/03/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>J. Munn</i>	DATE SIGNED: 06/03/14



WATER SAMPLE LOG (CONTINUED FROM PREVIOUS PAGE)

PROJECT NAME: LE Carpenter & Co.		PREPARED		CHECKED	
PROJECT NUMBER: 212321.000001.000000		BY: JL	DATE: 6/3/14	BY: SP	DATE: 6/18/14

SAMPLE ID: MW-25R

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1358	400	7.19	715	-132	5.41	21.7	12.89	3.46	5.25 GAL
1403	400	7.21	711	-131	5.43	16.5	12.74	3.48	5.75 GAL
1408	400	7.23	710	-129	5.50	16.8	12.64	3.50	6.25 GAL

SIGNATURE: D. [Signature] DATE SIGNED: 06/03/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM DATE: 06/02/14	BY: SP DATE: 6/18/14

SAMPLE ID: MW-31S	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1025	DATE: 06/02/14	SAMPLE	TIME: 1419	DATE: 06/03/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: 10.11 SU CONDUCTIVITY: 650 umhos/cm		
DEPTH TO WATER: 4.99 T/ PVC			ORP: -181 mV DO: 3.10 mg/L		
DEPTH TO BOTTOM: 10.25 T/ PVC			TURBIDITY: 20.4 NTU		
WELL VOLUME: 0.87 LITERS <input type="checkbox"/> GALLONS			<input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 1.6 LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: 17.55 °C OTHER: by 2m		
COLOR: black silt ODOR: slight			COLOR: black silt ODOR: slight		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: FILTRATE ODOR: slight		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP-02		
			COMMENTS: Fe=0 Alk=70 CO2=0		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1027	300	8.40	640	-254	6.61	60.5	17.21	4.90	INITIAL
1032	300	10.11	651	-189	6.41	34.5	14.75	7.62	2L
1037	300	10.12	628	-194	6.23	22.2	14.80	8.47	4L
1042	300	10.11	650	-181	3.10	20.4	17.55	9.10	6L
									at pump intake

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5(-1000), 20}{(5-1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate												
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N					
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N					
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N					

SHIPPING METHOD: FEDEX	DATE SHIPPED: 06/03/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>DM</i>	DATE SIGNED: 06/03/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: DM DATE: 06/02/14	BY: Sp DATE: 6/18/14

SAMPLE ID: MW-33S	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1116	DATE: 06/02/14	SAMPLE	TIME: 1510	DATE: 06/03/14
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: 7.98	SU CONDUCTIVITY: 645	umhos/cm
DEPTH TO WATER: 6.26	TI PVC		ORP: -117	DO: 7.09	mg/L
DEPTH TO BOTTOM: 10.31	TI PVC		TURBIDITY: 43.8	NTU	
WELL VOLUME: 0.66	<input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		TEMPERATURE: 14.99	OTHER: My OM	
VOLUME REMOVED: 0.92	<input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		COLOR: Black silty	ODOR: strong	
COLOR: Black silty	ODOR: strong		FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: clear	FILTRATE ODOR: strong	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Fe= NA Alk= NA CO2= NA					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1118	300	8.12	665	-762	9.02	646	17.39	5.92	INITIAL
1123	300	7.92	680	-119	8.51	53.0	13.93	8.25	2L
1128	300	7.58	645	-117	7.09	43.8	14.99	9.08	3.5L
↑ cut pump intake									
Not Enough Volume for titrations.									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (<1000), 20 (>1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		

SHIPPING METHOD: FEDEX	DATE SHIPPED: 06/03/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: NA	SIGNATURE: <i>[Signature]</i>	DATE SIGNED: 06/03/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS</u> DATE: <u>08/04/14</u>	BY: <u>JP</u> DATE: <u>6/8/14</u>

SAMPLE ID: MW-08	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0848</u>	DATE: <u>06/04/14</u>	SAMPLE	TIME: <u>0928</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	BLADDER PUMP (QED)		PH: <u>7.09</u>	SU	CONDUCTIVITY: <u>604</u> umhos/cm
DEPTH TO WATER: <u>3.25</u> T/ PVC			ORP: <u>-158</u> mV	DO: <u>1.02</u> mg/L	
DEPTH TO BOTTOM: <u>20.05</u> T/ PVC			TURBIDITY: <u>15.6</u> NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: <u>11</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>10.56</u> °C	OTHER: <u>By PPS</u>	
VOLUME REMOVED: <u>4.0</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>None</u>	ODOR: <u>None</u>	
COLOR: <u>slightly clear</u>			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>None</u>	FILTRATE ODOR: <u>None</u>	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Fe= <u>20</u> Alk= <u>13</u> CO2= <u>16</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0848	300	6.35	608	-53	1.13	34.6	11.43	3.25	INITIAL
0853	300	6.82	606	-131	0.84	23.1	10.62	3.27	~.5
0858	300	6.85	606	-144	1.13	23.0	10.57	3.27	~1.0
0903	300	6.97	605	-153	0.96	20.1	10.79	3.25	~1.5
0908	300	7.00	603	-154	1.15	17.8	10.76	3.27	~2.0
0913	300	7.00	604	-157	1.11	19.4	10.68	3.26	~2.5
0918	300	7.02	605	-158	1.09	15.6	10.65	3.26	~3.0
0923	300	7.09	604	-159	1.15	15.1	10.63	3.27	~3.5
0928	300	7.09	604	-158	1.02	15.6	10.65	3.27	~4.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (<1000), 20 (>1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
				<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>JL</u> DATE: <u>06/4/14</u>	BY: <u>SP</u> DATE: <u>6/18/14</u>

SAMPLE ID: MW-301	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0850</u>	DATE: <u>06/4/14</u>	SAMPLE	TIME: <u>0930</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: <u>6.92</u> SU CONDUCTIVITY: <u>921</u> umhos/cm		
DEPTH TO WATER: <u>2.67</u> T/ PVC			ORP: <u>-164</u> mV DO: <u>1.01</u> mg/L		
DEPTH TO BOTTOM <u>18.10</u> T/ PVC			TURBIDITY: <u>5.1</u> NTU		
WELL VOLUME: <u>2.52</u> LITERS <input checked="" type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED <u>5.0</u> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>10.25</u> °C OTHER: <u>JL</u>		
COLOR: <u>SLIGHT BROWN TINT</u> ODOR: <u>None</u>			COLOR: <u>CLEAR</u> ODOR: <u>None</u>		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: <u>CLEAR</u> FILTRATE ODOR: <u>None</u>		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
			COMMENTS: Fe= <u>12</u> Alk= <u>125</u> CO2= <u>14</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
0850	400	5.97	856	34	6.07	30.7	15.33	2.67	INITIAL
0855	400	6.54	931	-93	0.88	25.0	11.36	2.71	0.5 GAL
0900	400	6.73	934	-124	0.66	17.9	10.95	2.76	1.25 GAL
0905	400	6.78	931	-141	0.86	16.7	10.79	2.76	2.0 GAL
0910	400	6.85	930	-148	1.00	12.2	10.63	2.79	2.5 GAL
0915	400	6.88	926	-155	1.11	9.2	10.61	2.79	3.25 GAL
0920	400	6.90	926	-159	1.10	6.1	10.62	2.80	3.75 GAL
0925	400	6.92	922	-161	1.07	4.3	10.63	2.80	4.25 GAL
0930	400	6.92	921	-164	1.01	3.1	10.25	2.80	5.00 GAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5(-1000, 20)}{(-1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>D. Mumf</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DM</u>	DATE: <u>06/04/14</u>
	BY: <u>Sp</u>	DATE: <u>6/8/14</u>

SAMPLE ID: ATM-01	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER <u>NA</u>
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER <u>NA</u>	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input checked="" type="checkbox"/> OTHER <u>Atmospheric Blank</u>	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>1029</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C OTHER: _____		
VOLUME REMOVED _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			COLOR: _____ ODOR: _____		
COLOR: _____ ODOR: _____			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
(The rest of the table is crossed out with a diagonal line.)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>PM</u> DATE: <u>06/04/14</u>	BY: <u>SP</u> DATE: <u>6/8/14</u>

SAMPLE ID: MW-29S	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1026⁰⁰</u>	DATE: <u>06/04/14</u>	SAMPLE	TIME: <u>1046</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: <u>6.67</u>	SU CONDUCTIVITY: <u>1010</u>	umhos/cm
DEPTH TO WATER: <u>7.02</u> TI PVC			ORP: <u>-163</u> mV	DO: <u>4.10</u>	mg/L
DEPTH TO BOTTOM: <u>14.60</u> TI PVC			TURBIDITY: <u>0.0</u> NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: <u>1.24</u> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>13.82</u> °C	OTHER: <u>By DM</u>	
VOLUME REMOVED: <u>2.4</u> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u>	ODOR: <u>None</u>	
COLOR: <u>clear</u>	ODOR: <u>None</u>		FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>clear</u>	FILTRATE ODOR: <u>None</u>	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
			COMMENTS: Fe= <u>12</u> Alk= <u>300</u> CO2= <u>70</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1023	400	6.67	1030	-156	7.54	4.10	16.43	6.82	INITIAL
1028	400	6.67	1010	-161	5.15	4.5	13.87	6.88	2L
1033	400	6.61	1010	-163	4.02	1.8	13.86	6.91	4L
1038	400	6.67	1010	-164	4.01	0.6	13.81	6.91	7L
1043	400	6.67	1010	-163	4.10	0.0	13.82	6.91	9L

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5(-1000), 20}/₍₋₁₀₀₀₎ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>D. [Signature]</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>SL</u> DATE: <u>06/04/14</u>	BY: <u>SP</u> DATE: <u>6/18/14</u>

SAMPLE ID: MW-30SR	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1020</u>	DATE: <u>06/04/14</u>	SAMPLE	TIME: <u>1055</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: <u>6.82</u> SU CONDUCTIVITY: <u>911</u> umhos/cm		
DEPTH TO WATER: <u>2.55</u> T/ PVC			ORP: <u>-147</u> mV DO: <u>1.42</u> mg/L		
DEPTH TO BOTTOM: <u>12.94</u> T/ PVC			TURBIDITY: <u>1.3</u> NTU		
WELL VOLUME: <u>1.69</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>11.61</u> °C OTHER: <u>SL</u>		
VOLUME REMOVED: <u>4.5</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>CLEAR</u> ODOR: <u>None</u>		
COLOR: <u>Teal Brown</u> ODOR: <u>None</u>			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>CLEAR</u> FILTRATE ODOR: <u>None</u>		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DDP-93		
COMMENTS: Fe= <u>18</u> Alk= <u>180</u> CO2= <u>24</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1020	400	6.81	842	-63	4.69	23.2	17.79	2.55	INITIAL
1025	400	6.79	916	-127	1.45	9.8	12.60	2.60	0.5 GAL
1030	400	6.84	916	-136	1.51	3.6	12.02	2.63	1.25 GAL
1035	400	6.85	912	-141	1.45	1.3	11.90	2.64	2.0 GAL
1040	400	6.87	911	-145	1.09	0.0	11.68	2.65	2.5 GAL
1045	400	6.85	912	-145	1.31	1.0	11.67	2.68	3.25 GAL
1050	400	6.85	913	-148	1.40	1.1	11.63	2.68	3.75 GAL
1055	400	6.82	911	-147	1.42	1.3	11.61	2.69	4.5 GAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (-1000, 20)}/₍₋₁₀₀₀₎ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	60 mL	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.0000001.000000	BY: DM	DATE: 06/04/14
	BY: Sp	DATE: 6/18/14

SAMPLE ID: RB- 02	WELL DIAMETER: <input type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input checked="" type="checkbox"/> OTHER NA
WELL MATERIAL: <input type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input checked="" type="checkbox"/> OTHER NA	
SAMPLE TYPE: <input type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input checked="" type="checkbox"/> OTHER Rinse Blank	

PURGING	TIME: /	DATE: /	SAMPLE	TIME: 1112	DATE: 06/04/14
PURGE METHOD: <input type="checkbox"/> PUMP <input type="checkbox"/> BAILER			PH: _____ SU	CONDUCTIVITY: _____ umhos/cm	
			ORP: _____ mV	DO: _____ mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: _____ NTU		
DEPTH TO BOTTOM: _____ T/ PVC			<input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			TEMPERATURE: _____ °C		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			OTHER: _____		
COLOR: _____			ODOR: _____		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
DISPOSAL METHOD <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: _____		
			FILTRATE ODOR: _____		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
			COMMENTS:		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
									INITIAL
(The rest of the table is crossed out with a diagonal line)									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 10% COND.: +/- 10% ORP: +/- 10% D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	
				<input type="checkbox"/> Y <input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N	

SHIPPING METHOD: FEDEX	DATE SHIPPED: 06/04/14	AIRBILL NUMBER: 1999-8059-9
COC NUMBER: _____	SIGNATURE: <i>J. Mump</i>	DATE SIGNED: 06/04/14



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DMS</u> DATE: <u>06/04/14</u>	BY: <u>SP</u> DATE: <u>6/18/14</u>

SAMPLE ID: MW-281	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1056</u>	DATE: <u>06/04/14</u>	SAMPLE	TIME: <u>1131</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	BLADDER PUMP (QED)		PH: <u>6.706</u>	SU CONDUCTIVITY: <u>785</u>	umhos/cm
DEPTH TO WATER: <u>5.24</u> TI PVC			ORP: <u>-156</u>	mV DO: <u>0.62</u>	mg/L
DEPTH TO BOTTOM: <u>22.81</u> TI PVC			TURBIDITY: <u>2.5</u>	NTU	
WELL VOLUME: <u>2.67</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>12.75</u> °C OTHER: <u>By PPS</u>		
VOLUME REMOVED: <u>~3.5</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>NR</u>	ODOR: <u>No</u>	
COLOR: <u>Clear</u> ODOR: <u>None</u>			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>None</u> FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input checked="" type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: Fe= <u>18</u> Alk= <u>12</u> CO2= <u>14</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1056	300	6.81	620	-123	1.29	19.4	13.53	5.24	INITIAL
1101	300	6.90	629	-138	0.88	14.7	12.82	5.25	~.5
1106	300	6.98	700	-147	0.66	7.7	12.71	5.26	~1.0
1111	300	6.94	759	-152	0.63	3.7	13.63	5.26	~1.5
1116	300	6.702	776	-154	0.68	2.7	12.77	5.27	~2
1121	300	7.02	782	-154	0.60	1.1	12.61	5.27	~2.5
1126	300	7.06	782	-156	0.78	0.8	12.64	5.28	~3.0
1131	300	7.06	785	-156	0.62	2.5	12.75	5.28	~3.5

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (-1000, 20)}/₁₀₀₀ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
				<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N		
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N		

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>JL</u> DATE: <u>06/04/14</u>	BY: <u>Sp</u> DATE: <u>6/18/14</u>

SAMPLE ID: MW-30D	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1137</u>	DATE: <u>06/04/14</u>	SAMPLE	TIME: <u>1223</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER			PH: <u>7.11</u> SU CONDUCTIVITY: <u>613</u> umhos/cm		
DEPTH TO WATER: <u>2.49</u> T/ PVC			ORP: <u>-112</u> mV DO: <u>10.17</u> mg/L		
DEPTH TO BOTTOM: <u>24.48</u> T/ PVC			TURBIDITY: <u>6.6</u> NTU		
WELL VOLUME: <input type="checkbox"/> LITERS <input type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: <u>11.0</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>10.63</u> °C OTHER: <u>JL</u>		
COLOR: <u>Light Brown</u> ODOR: <u>None</u>			COLOR: <u>CLEAR</u> ODOR: <u>None</u>		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			FILTRATE COLOR: <u>CLEAR</u> FILTRATE ODOR: <u>None</u>		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
			COMMENTS: Fe= <u>10</u> Alk= <u>105</u> CO2= <u>10.5</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1138	1000	7.37	484	-55	13.29	488	11.36	2.49	INITIAL
1143	1000	7.29	560	-85	10.64	873	10.75	2.59	1.5 GAL
1148	1000	7.18	576	-98	10.35	96.0	10.66	2.62	3.25 GAL
1153	1000	7.21	555	-103	10.41	99.6	10.75	2.61	4.25 GAL
1158	1000	7.20	409	-112	10.07	44.4	10.59	2.60	5.25 GAL
1203	1000	7.10	604	-105	10.19	7.5	10.65	2.60	6.25 GAL
1208	1000	7.16	618	-108	10.31	14.0	10.59	2.60	7.5 GAL
1213	1000	7.13	598	-105	10.27	10.3	10.65	2.60	8.5 GAL
1218	1000	7.16	609	-104	10.23	9.8	10.73	2.60	9.75 GAL
1223	1000	7.11	613	-112	10.17	6.6	10.63	2.60	11.0 GAL

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5(-1000), 20}{(+1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/04/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPS</u> DATE: <u>06/04/14</u>	BY: <u>Sp</u> DATE: <u>6/18/14</u>

SAMPLE ID: MW-28S	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1217</u>	DATE: <u>06/04/14</u>	SAMPLE	TIME: <u>1247</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (QED) <input type="checkbox"/> BAILER	PH: <u>7.09</u> SU CONDUCTIVITY: <u>613</u> umhos/cm		ORP: <u>-162</u> mV DO: <u>0.37</u> mg/L		
DEPTH TO WATER: <u>5.37</u> TI PVC	TURBIDITY: <u>2.1</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: <u>12.64</u> TI PVC	TEMPERATURE: <u>12.47</u> °C		OTHER: <u>By DPS</u>		
WELL VOLUME: <u>2.0</u> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>None</u>		ODOR: <u>None</u>		
VOLUME REMOVED: <u>3.0</u> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		FILTRATE COLOR: <u>clear</u> FILTRATE ODOR: <u>None</u>		
COLOR: <u>None</u> ODOR: <u>None</u>	TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER	COMMENTS: Fe= <u>20</u> Alk= <u>12</u> CO2= <u>15</u>				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1217	300	6.90	608	-141	0.58	244	13.02	5.35	INITIAL
1222	300	7.03	609	-152	0.45	51.2	12.54	5.36	0.5
1227	300	7.03	610	-155	0.41	27.2	12.60	5.37	1.0
1232	300	7.04	611	-159	0.39	12.2	12.57	5.37	1.5
1237	300	7.05	611	-160	0.37	7.5	12.43	5.37	2.0
1242	300	7.01	610	-161	0.35	4.2	12.45	5.37	2.5
1247	300	7.09	613	-162	0.37	2.1	12.47	5.38	3.0

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- $\frac{5 \times (1000)^{.20}}{(1000)}$ ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
				<input type="checkbox"/> Y <input type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>[Signature]</u>	DATE SIGNED: <u>06/10/14</u>



WATER SAMPLE LOG

PROJECT NAME: LE Carpenter & Co.	PREPARED	CHECKED
PROJECT NUMBER: 212321.000001.000000	BY: <u>DPJ/OL</u> DATE: <u>06/03/14</u>	BY: <u>Sp</u> DATE: <u>6/8/14</u>

SAMPLE ID: MW-27S	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1305</u>	DATE: <u>06/03/14</u>	SAMPLE	TIME: <u>1315</u>	DATE: <u>06/04/14</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP BLADDER PUMP (GED) <input type="checkbox"/> BAILER			PH: <u>7.23</u> SU CONDUCTIVITY: <u>914</u> umhos/cm		
DEPTH TO WATER: <u>8.43</u> TI PVC			ORP: <u>54</u> mV DO: <u>3.74</u> mg/L		
DEPTH TO BOTTOM: <u>13.02</u> TI PVC <u>L0.75</u>			TURBIDITY: <u>73</u> NTU		
WELL VOLUME: <u>13.02</u> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>12.53</u> °C OTHER: <u>My DM</u>		
VOLUME REMOVED: <u>0.8</u> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>Silty Brown</u> ODOR: <u>None</u>		
COLOR: <u>Silty Brown</u> ODOR: <u>None</u>			FILTRATE (0.45 um) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: <u>Clear</u> FILTRATE ODOR: <u>None</u>		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> DRUM <input type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Fe= <u>NA</u> Alk= <u>NA</u> CO2= <u>NA</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GAL OR L)
1305	300	5.67	967	138	5.04	115	13.70	8.43	INITIAL
1310	300	6.86	886	53	2.93	64.3	12.78	9.41	2L
1315	300	7.23	914	54	3.74	73.0	12.53	11.23	3L
<p>Not Enough Volume for titration</p> <p style="margin-left: 400px;">↑ at pump intake</p>									

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- ^{5 (<1000), 20 (>1000)} ORP: +/- NA D.O.: +/- 0.3 TURB: +/- 10% or <= 10 TEMP.: +/- 0.5°C

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - Thiosulfate							
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	40 mL	VOA	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	125 mL	PLASTIC	B	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	40 mL	VOA	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1	100 mL	PLASTIC	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
2	1 L	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	60 mL	AMBER	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	500mL	PLASTIC	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: <u>FEDEX</u>	DATE SHIPPED: <u>06/04/14</u>	AIRBILL NUMBER: <u>1999-8059-9</u>
COC NUMBER: <u>NA</u>	SIGNATURE: <u>D. Murphy</u>	DATE SIGNED: <u>06/04/14</u>

CHAIN-OF-CUSTODY RECORD

TRACE ID NO. _____

Trace Analytical Lab., Inc.
 2241 Black Creek Road
 Muskegon, MI 49444-2673
 www.trace-labs.com

phone 231-773-5998
 toll-free 800-733-5998
 fax 231-773-6537

TRACE
 the science of compliance

Page 1 of 3

Client Name: TRC		Checked By: _____							
Contact Person: Scott Pawlukiewicz		Preservative Checked: Yes No							
Mailing Address: 2025 East Beltline Ave Ste 402		Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:							
City, State, Zip Code: Grand Rapids MI 49546		Yes No							
Phone: 616-975-5715 Fax: _____		Logged By: _____							
Email Address: SPawlukiewicz@trcsolutions.com		Turnaround Requirements							
Cell #: _____		Standard <input type="checkbox"/> 3-4 Day (RUSH)* <input checked="" type="checkbox"/> 24-48 Hour (RUSH)* <input type="checkbox"/> * Requires prior approval							
Project Name & #: LEC 212321-000001-000000		Matrix Key WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge							
Billing Address (if different): _____		Regulatory Requirements							
City, State, Zip Code: Windsor CT		MERA TMDL's <input type="checkbox"/> Drinking Water <input type="checkbox"/> NPDES <input type="checkbox"/> USACE <input type="checkbox"/> Special <input type="checkbox"/>							
Attr: _____ Phone: _____ PO #: _____		Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:							
ANALYSIS REQUESTED									
Possible Health Hazard									
Request for Analytical Services									
TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBERS OF CONTAINERS	REMARKS		
	06/02/14	0919		SW-D-5	W	4			
	06/02/14	0926		DRC-02	W	4			
	06/02/14	0940		SW-R-1	W	4			
	06/02/14	0957		SW-R-3	W	4			
	06/02/14	1010		SW-R-4	W	4			
	06/02/14	1043		SW-R-2	W	4			
	06/02/14	1304		SW-D-4	W	4			
	06/02/14	1315		SW-D-3	W	4			
	06/02/14	1322		SW-D-2	W	4			
	06/02/14	1327		DUP-01	W	4			
Please Sign		Item #	RELEASED BY	DATE	TIME	Item #	RECEIVED BY	DATE	TIME
1) <i>J.M.</i>			FedEx	06/02/14	1745	3)			
2)						4)			

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at <http://www.trace-labs.com/coctrms.php>

59 10 25



phone 231-773-5998
toll-free 800-733-5998
fax 231-773-5537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

TRACE ID NO.

Page 2 of 3

Client Name: TRC
 Contact Person: Scott Pavlikovic
 Mailing Address: 2025 East Bethel Ave Ste 402
 City, State, Zip Code: Grand Rapids MI 49546
 Phone: 616-975-5415 Fax:
 Email Address: SPavlikovic@trc-solutions.com
 Cell #:
 Project Name & #: LEC 212 321,00001,00000
 Billing Address (if different): Windsor CT
 City, State, Zip Code: PO #:
 Attn: Phone:

Logged By: _____ Checked By: _____
 Received on ice: Yes No Preservative Checked: Yes No N/A
 Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements: MERA TMDL's Drinking Water NPDES USACE Special
 Turnaround Requirements: Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)* * Requires prior approval
 Matrix Key: S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge

TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBERS OF CONTAINERS	ANALYSIS REQUESTED	REMARKS
	06/02/14	1342		SW-D-1	W	4	DEHP, CH4, NO1501/TS/MS, NH4/P, Dis Lead, HPC	
	06/02/14	1430		RB-01	W	4		
	06/03/14	0908	Y	MW-19-7R	W	8		
	06/03/14	0930	Y	MW-19-13	W	8		
	06/03/14	1058	Y	MW-34S	W	10		
	06/03/14	1120	Y	MW-19-5R	W	8		
	06/03/14	1212	Y	MW-35S	W	10		
	06/03/14	1222	Y	MW DUP-02	W	10		
	06/03/14	1344	Y	MW-32S	W	9		
	06/03/14	1408	Y	MW-25R	W	10		

Request for Analytical Services

Item # 1) JMMF Released By: FedEx Received By: DATE: 06/03/14 TIME: 1745

Item # 2) Released By: Received By: DATE: TIME:

Please Sign



phone 231-773-5998
 toll-free 800-733-5998
 fax 231-773-6537

Trace Analytical Lab, Inc.
 2241 Black Creek Road
 Muskegon, MI 49444-2673
 www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

Page 3 of 3

TRACE ID NO.

Client Name: TRC
 Contact Person: S. Pavlukiewicz
 Mailing Address: 2025 East Beltline Ave Sk 902
 City, State, Zip Code: Grand Rapids MI 49546
 Phone: 616-979-5815
 Email Address: Spavlukiewicz@trcsolutions.com
 Cell #:
 Sampled by: DPJ, DM

Project Name & #: LEC 212321-000001-000000
 Billing Address (if different):
 City, State, Zip Code: Windsor CT
 Attn:
 Phone:
 PO #:

TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBERS OF CONTAINERS
	06/03/14	1413	Y	MW-25R (MS/MSD)	W	10
	06/03/14	1419	Y	MW-31S	W	10
	06/03/14	1510	Y	MW-33S	W	10

Item #	RELEASED BY	RECEIVED BY	DATE	TIME	Item #
1)	D.M.A.	FedEx	06/03/14	1745	3)
2)					4)

ANALYSIS REQUESTED

Regulatory Requirements: MERA TMDL's Standard 3-4 Day (RUSH)* NPDES USACE Special

Turnaround Requirements: Standard 24-48 Hour (RUSH)* * Requires prior approval

Matrix Key: S = Soil, W = Water, SE = Sediment, OI = Oil, SO = Solid Waste, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water, SL = Sludge

Item #	DATE	TIME	RECEIVED BY	RELEASED BY	REMARKS
1)					B7E7, DEHP, CH4, NH4P, NO3/NO2/TS/TDS, Pb, Lead, HPLC
2)					
3)					
4)					

Report Results To:

Logged By:
 Received on ice: Yes No
 Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:
 Preservative Checked: Yes No
 N/A

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/coc/terms.php



phone 231-773-5998
toll-free 800-733-5998
fax 231-773-6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
www.trace-labs.com

CHAIN-OF-CUSTODY RECORD

TRACE ID NO.

Page 1 of 2

Client Name: TRC
Contact Person: Scott Pawlukiewicz
Mailing Address: 2025 East Pathline Ave Ste 400
City, State, Zip Code: Grand Rapids MI 49546
Phone: 616-973-5415 Fax:
Email Address: SPawlukiewicz@trcsolutions.com
Cell #: Sampled by: DPJ, JL, DM

Project Name & #: LEC 212 321.000001.000000
Billing Address (if different): Windsor CT
City, State, Zip Code: PO #:

Attn: Phone: PO #:

TRACE USE ONLY
Logged By: _____ Checked By: _____
Received on ice: Yes No Preservative Checked: Yes No N/A
Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements
MERA TMDL's Standard Matrix Key
Drinking Water 3-4 Day (RUSH)* W = Water
NPDES 24-48 hour (RUSH)* SE = Sediment
USACE * Requires prior approval OI = Oil
Special SO = Solid Waste
WI = Wipes
LW = Liquid Waste
A = Air
D = Drinking Water
SL = Sludge

ANALYSIS REQUESTED

TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBERS OF CONTAINERS	REMARKS
	06/04/14	0928	Y	MW-08	W	8	
	06/04/14	0930	Y	MW-30I	W	8	
	06/04/14	0937		SW-R-6	W	4	
	06/04/14	1029		ATM-01	W	4	
	06/04/14	1046	Y	MW-295	W	8	
	06/04/14	1055	Y	MW-305R	W	8	
	06/04/14	1112		RB-02	W	4	
	06/04/14	1131	Y	MW-28I	W	8	
	06/04/14	1223	Y	MW-30D	W	8	
	06/04/14	1247	Y	MW-28S	W	8	

Item #	RELEASED BY	RECEIVED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1)	D. Murphy	FedEx	06/04/14	1430			
2)							

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at <http://www.trace-labs.com/coctrms.php>

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WELL INSPECTION REPORT

PROJECT NAME: LE Carpenter & Co.	SAMPLER NAME: David Marx, Jack Lenhart, Daniel Shanahan
PROJECT NO.: 212321.000001.000000	DATE: 06/02/14

WELL ID	PROTECTIVE CASING	SURFACE SEAL	DEGREE OF IMMOBILITY OF PROTECTIVE CASING	PERMANENT LEGIBLE LABELS	LOCK	WELL CAP	EASE OF INSERTING / REMOVING BAILER	SEDIMENT IN WELL	COMMENT
MW-19-6R	Good	Good			Good	Good			Good
MW-19-7R					Good	Good			Cracked Pad
MW-19-17									Missing 2 bolts tabs
MW-19-8					No	Good			Missing bolts / bolt tabs
MW-19-12					Yes	Good			Missing bolt tabs
MW-19-7R					Good	Good			Good
MW-19-13					Good	Good			Good
MW-19-16					Good	Good			Good
MW-19-14									Good
MW-19R									Missing 1 bolt / Flooded
MW-19-15									Good
GEI-3i		-			independent	loose			chain on lid is broken
MW-27g									Good
MW-15S									Good
MW-15i									Good
MW-29s									Good
MW-29s									Good

SIGNED: <u>D. Marx</u>	CHECKED BY: <u>S. Pambury</u>	DATE: <u>06/02/14</u>
		DATE: <u>6/18/14</u>



WELL INSPECTION REPORT

PROJECT NAME: LE Carpenter & Co. SAMPLER NAME: David Marx, Jack Lenhart, Daniel Shanahan

PROJECT NO.: 212321.000001.000000 DATE:

WELL ID	PROTECTIVE CASING	SURFACE SEAL	DEGREE OF IMMOBILITY OF PROTECTIVE CASING	PERMANENT LEGIBLE LABELS	LOCK	WELL CAP	EASE OF INSERTING / REMOVING BAILER	SEDIMENT IN WELL	COMMENT
MW-28i									Good
MW-30d									Good
MW-30j									Good
MW-30s									Good
MW-25R					No				No Cap
MW-8									Needs Coat
MW-9									Needs new lock
MW-12									Good
MW-21									Needs new lock

SIGNED: D. Marx DATE: 06/02/14

CHECKED BY: S. Pawley DATE: 6/18/14

Appendix B

Laboratory Analytical Reports

L.E. Carpenter

212321.2014.0000.000001

Laboratory Data Review for Batch T14C338 by Terry Hertz on 6/30/2014

Twenty two groundwater or surface water samples, two field duplicates, two trip blanks, two rinsate blanks and an atmospheric blank were collected March 24-26, 2014, and submitted to Trace for analysis. Samples were analyzed for one or more of the following analytes: Benzene, toluene, ethylbenzene, xylenes, and bis(2-ethylhexyl)phthalate. Samples arrived at the laboratory preserved at an appropriate temperature. Chains-of-Custody (CoCs) were signed. Samples were analyzed within hold times.

- **Note that the HCl preservation of VOCs was not found on the CoCs nor in the laboratory report which can affect the review of sample hold times. The documentation of HCl preservative was found pre-printed on the Field Note Water Sample Logs. It is recommended that preservative use in the future be documented on the CoCs. Use of HCl preservative typically extends the hold time of VOC samples to 14 days while unpreserved VOC samples have a hold time of 7 days.**

Laboratory reported QC data for the various analyses were reviewed and the findings are described below.

Organic Surrogates

Organic surrogate recoveries were within QC limits except as follows:

- The base surrogate nitrobenzene-d5 has low recovery in SW-D-3. The two neutral surrogates have acceptable recoveries. No flags were assigned.

Blanks

Method blanks, rinsate blanks, trip blanks and the atmospheric blank were free of detections.

Laboratory Control Sample (LCS)

LCS recoveries are within control limits except as noted below.

- Benzene and Toluene recoveries in LCS T044166-BS1 are above the 120% Upper Recover Limit at 121% and 125%, respectively. Samples MW-27S, MW-33S and Trip Blank #2 are associated with this LCS, but these samples do not have VOC detections. No flags were assigned.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

MS/MSD analyses were not performed.

Laboratory duplicate

A laboratory duplicate analysis was not performed.

Field duplicate

DUP-01 is a field duplicate of MW-34S. DUP-02 is a field duplicate of SW-D-4. RPDs are calculated in the accompanying table. If either the parent or duplicate has a reported detection but the other does not,

the RPD is not calculable; however, for such cases in this report the detections are nominally above the reporting limit which means the results are acceptable. The RPD for bis(2-ethylhexyl)phthalate in the MW-34S/DUP-01 field duplicate pair is 89.9%. **Bis(2-ethylhexyl)phthalate (BEHP) in both MW-34S and DUP-01 is assigned a "j" flag indicating that the results are estimated.** Note that the data reviewer contacted the laboratory and questioned the BEHP results because MW-34S had a dilution of 2 with a result near 200 ug/L while DUP-01 had a dilution of 5 and a result of 500 ug/L, thus appearing like the high RPD might be caused by an incorrect calculation related to dilutions. The lab verified the initial calculations and reported concentrations.

Reanalyses

BEHP in SW-R-4 was initially analyzed on 3/28/14 with a result of 130 ug/L. The sample was reextracted outside of hold time and then reanalyzed on 4/15/14 with a result of <1.9 ug/L.

May 06, 2014

Mr. Scott Pawlukiewicz
TRC Solutions
2025 E. Beltline Ave., SE, Ste 402
Grand Rapids, MI 49546

Phone: (201) 636-5884
Fax: (616) 975-1098

RE: Trace Project T14C338
Client Project LEC 212321.000001.000000

Dear Mr. Pawlukiewicz:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,



Jon Mink
Senior Project Manager
Enclosures



NJDEP Accreditation No. MI008 PADEP Accreditation No. 68-04471

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SAMPLE SUMMARY

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T14C338-01	SW-D-5	Surface Water	dm/dps	03/24/14 11:52	03/26/14 10:18
T14C338-02	DRC-02	Surface Water	dm/dps	03/24/14 12:05	03/26/14 10:18
T14C338-03	SW-R-1	Surface Water	dm/dps	03/24/14 12:27	03/26/14 10:18
T14C338-04	SW-R-2	Surface Water	dm/dps	03/24/14 12:38	03/26/14 10:18
T14C338-05	SW-R-3	Surface Water	dm/dps	03/24/14 13:05	03/26/14 10:18
T14C338-06	SW-R-4	Surface Water	dm/dps	03/24/14 13:12	03/26/14 10:18
T14C338-07	SW-R-6	Surface Water	dm/dps	03/24/14 14:56	03/26/14 10:18
T14C338-08	MW-34S	Ground Water	dm/dps	03/25/14 07:43	03/26/14 10:18
T14C338-09	DUP-01	Ground Water	dm/dps	03/25/14 07:46	03/26/14 10:18
T14C338-10	MW-35S	Ground Water	dm/dps	03/25/14 08:17	03/26/14 10:18
T14C338-11	MW-32S	Ground Water	dm/dps	03/25/14 09:37	03/26/14 10:18
T14C338-12	MW-29S	Ground Water	dm/dps	03/25/14 09:40	03/26/14 10:18
T14C338-13	MW-31S	Ground Water	dm/dps	03/25/14 10:13	03/26/14 10:18
T14C338-14	MW-25R	Ground Water	dm/dps	03/25/14 11:24	03/26/14 10:18
T14C338-15	MW-28I	Ground Water	dm/dps	03/25/14 13:03	03/26/14 10:18
T14C338-16	MW-08	Ground Water	dm/dps	03/25/14 13:07	03/26/14 10:18
T14C338-17	MW-28S	Ground Water	dm/dps	03/25/14 13:43	03/26/14 10:18
T14C338-18	MW-27S	Ground Water	dm/dps	03/25/14 14:55	03/26/14 10:18
T14C338-19	TRIP BLANK #1	Aqueous	dm/dps	03/25/14	03/26/14 10:18
T14C338-20	MW-33S	Ground Water	dm/dps	03/26/14 07:50	03/27/14 14:02
T14C338-21	RB-01	Aqueous	dm/dps	03/26/14 07:59	03/27/14 14:02
T14C338-22	ATM-01	Aqueous	dm/dps	03/26/14 08:25	03/27/14 14:02
T14C338-23	RB-02	Aqueous	dm/dps	03/26/14 08:40	03/27/14 14:02
T14C338-24	SW-D-4	Surface Water	dm/dps	03/26/14 08:45	03/27/14 14:02
T14C338-25	Dup-02	Surface Water	dm/dps	03/26/14 08:47	03/27/14 14:02
T14C338-26	SW-D-3	Surface Water	dm/dps	03/26/14 08:56	03/27/14 14:02
T14C338-27	SW-D-2	Surface Water	dm/dps	03/26/14 09:03	03/27/14 14:02
T14C338-28	SW-D-1	Surface Water	dm/dps	03/26/14 09:14	03/27/14 14:02
T14C338-29	Trip Blank #2	Aqueous	Client	03/26/14	03/27/14 14:02

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.

DATA QUALIFIERS

Trace ID: T044166-BS1

Analysis: EPA 8260B

Benzene	Note 112 : The LCS recovery was out of control high. Because there were no positive results for this analyte in this QC batch, no data require qualification.
Toluene	Note 112 : The LCS recovery was out of control high. Because there were no positive results for this analyte in this QC batch, no data require qualification.

Trace ID: T14C338-06RE1

Analysis: EPA 8270C

Note 501 : The sample result and reporting limit must be considered estimated. The extraction was performed beyond the EPA established seven-day hold time.

Trace ID: T14C338-10

Analysis: EPA 8270C

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Terphenyl-d14	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T14C338-11

Analysis: EPA 8270C

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

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Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T14C338-13

Analysis: EPA 8270C

2-Fluorobiphenyl

Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Nitrobenzene-d5

Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T14C338-20

Analysis: EPA 8270C

2-Fluorobiphenyl

Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Nitrobenzene-d5

Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.

Trace ID: T14C338-26

Analysis: EPA 8270C

Nitrobenzene-d5

Note 802 : One of the base/neutral surrogate recoveries was outside the control limits. Since the other two base/neutral surrogates were within the control limits, no data require qualification.

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-01 Date Collected: 03/24/14 11:52 Matrix: Surface Water
Sample ID: SW-D-5 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044131

Benzene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/02/14	jan	04/02/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/02/14	jan	04/02/14	jn		

Surrogates:

1,2-Dichloroethane-d4	86 %	68-133	1	04/02/14	jan	04/02/14	jn		
Toluene-d8	89 %	75-120	1	04/02/14	jan	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	03/27/14	kb	03/27/14	avl		
Surrogates:									
Nitrobenzene-d5	77 %	36-103	1	03/27/14	kb	03/27/14	avl		
2-Fluorobiphenyl	76 %	36-119	1	03/27/14	kb	03/27/14	avl		
Terphenyl-d14	73 %	37-109	1	03/27/14	kb	03/27/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-02 Date Collected: 03/24/14 12:05 Matrix: Surface Water
Sample ID: DRC-02 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044131

Benzene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/02/14	jan	04/02/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/02/14	jan	04/02/14	jn		

Surrogates:

1,2-Dichloroethane-d4	84 %	68-133	1	04/02/14	jan	04/02/14	jn		
Toluene-d8	90 %	75-120	1	04/02/14	jan	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	03/27/14	kb	03/27/14	avl		
Surrogates:									
Nitrobenzene-d5	71 %	36-103	1	03/27/14	kb	03/27/14	avl		
2-Fluorobiphenyl	73 %	36-119	1	03/27/14	kb	03/27/14	avl		
Terphenyl-d14	76 %	37-109	1	03/27/14	kb	03/27/14	avl		

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 Muskegon, MI 49444-2673
 info@trace-labs.com
 www.trace-labs.com

ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-03 Date Collected: 03/24/14 12:27 Matrix: Surface Water
 Sample ID: SW-R-1 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044131

Benzene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/02/14	jan	04/02/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/02/14	jan	04/02/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/02/14	jan	04/02/14	jn		

Surrogates:

1,2-Dichloroethane-d4	85 %	68-133	1	04/02/14	jan	04/02/14	jn		
Toluene-d8	90 %	75-120	1	04/02/14	jan	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	1.0 ug/L	1.0	1	03/27/14	kb	03/27/14	avl		
Surrogates:									
Nitrobenzene-d5	73 %	36-103	1	03/27/14	kb	03/27/14	avl		
2-Fluorobiphenyl	74 %	36-119	1	03/27/14	kb	03/27/14	avl		
Terphenyl-d14	81 %	37-109	1	03/27/14	kb	03/27/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-04 Date Collected: 03/24/14 12:38 Matrix: Surface Water
Sample ID: SW-R-2 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044128

Benzene	<0.50 ug/L		0.50	1	04/02/14	klm	04/02/14	jn		
Toluene	<0.50 ug/L		0.50	1	04/02/14	klm	04/02/14	jn		
Ethylbenzene	<0.50 ug/L		0.50	1	04/02/14	klm	04/02/14	jn		
m,p-Xylene	<1.0 ug/L		1.0	1	04/02/14	klm	04/02/14	jn	N	
o-Xylene	<0.50 ug/L		0.50	1	04/02/14	klm	04/02/14	jn	N	
Xylenes, total	<1.5 ug/L		1.5	1	04/02/14	klm	04/02/14	jn		

Surrogates:

1,2-Dichloroethane-d4	101 %		68-133	1	04/02/14	klm	04/02/14	jn		
Toluene-d8	98 %		75-120	1	04/02/14	klm	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	<1.1 ug/L		1.1	1	03/27/14	kb	03/27/14	avl		
Surrogates:										
Nitrobenzene-d5	66 %		36-103	1	03/27/14	kb	03/27/14	avl		
2-Fluorobiphenyl	68 %		36-119	1	03/27/14	kb	03/27/14	avl		
Terphenyl-d14	79 %		37-109	1	03/27/14	kb	03/27/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-05 Date Collected: 03/24/14 13:05 Matrix: Surface Water
 Sample ID: SW-R-3 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044128

Benzene	<0.50	ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Toluene	<0.50	ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	04/02/14	klm	04/02/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	04/02/14	klm	04/02/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	04/02/14	klm	04/02/14	jn		

Surrogates:

1,2-Dichloroethane-d4	99 %		68-133	1	04/02/14	klm	04/02/14	jn		
Toluene-d8	96 %		75-120	1	04/02/14	klm	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	03/27/14	kb	03/27/14	avl		
Surrogates:										
Nitrobenzene-d5	42 %		36-103	1	03/27/14	kb	03/27/14	avl		
2-Fluorobiphenyl	43 %		36-119	1	03/27/14	kb	03/27/14	avl		
Terphenyl-d14	54 %		37-109	1	03/27/14	kb	03/27/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-06 Date Collected: 03/24/14 13:12 Matrix: Surface Water
Sample ID: SW-R-4 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044128

Benzene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/02/14	klm	04/02/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/02/14	klm	04/02/14	jn		

Surrogates:

1,2-Dichloroethane-d4	113 %	68-133	1	04/02/14	klm	04/02/14	jn		
Toluene-d8	87 %	75-120	1	04/02/14	klm	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	130 ug/L	1.9	2	03/27/14	kb	03/28/14	avl		
Bis(2-ethylhexyl)phthalate	<1.9 ug/L	1.9	2	04/15/14	kb	04/15/14	avl		
Surrogates:									
Nitrobenzene-d5	69 %	36-103	2	03/27/14	kb	03/28/14	avl		
Nitrobenzene-d5	73 %	36-103	2	04/15/14	kb	04/15/14	avl		
2-Fluorobiphenyl	78 %	36-119	2	03/27/14	kb	03/28/14	avl		
2-Fluorobiphenyl	84 %	36-119	2	04/15/14	kb	04/15/14	avl		
Terphenyl-d14	88 %	37-109	2	03/27/14	kb	03/28/14	avl		
Terphenyl-d14	88 %	37-109	2	04/15/14	kb	04/15/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-07 Date Collected: 03/24/14 14:56 Matrix: Surface Water
Sample ID: SW-R-6 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044128

Benzene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/02/14	klm	04/02/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/02/14	klm	04/02/14	jn		

Surrogates:

1,2-Dichloroethane-d4	100 %	68-133	1	04/02/14	klm	04/02/14	jn		
Toluene-d8	98 %	75-120	1	04/02/14	klm	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	03/27/14	kb	03/27/14	avl		
Surrogates:									
Nitrobenzene-d5	77 %	36-103	1	03/27/14	kb	03/27/14	avl		
2-Fluorobiphenyl	79 %	36-119	1	03/27/14	kb	03/27/14	avl		
Terphenyl-d14	86 %	37-109	1	03/27/14	kb	03/27/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-08 Date Collected: 03/25/14 07:43 Matrix: Ground Water
Sample ID: MW-34S Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044128

Benzene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
Ethylbenzene	0.56 ug/L	0.50	1	04/02/14	klm	04/02/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/02/14	klm	04/02/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/02/14	klm	04/02/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/02/14	klm	04/02/14	jn		
Surrogates:									
1,2-Dichloroethane-d4	104 %	68-133	1	04/02/14	klm	04/02/14	jn		
Toluene-d8	97 %	75-120	1	04/02/14	klm	04/02/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	190 ug/L	2.0	2	03/27/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	54 %	36-103	2	03/27/14	kb	03/28/14	avl		
2-Fluorobiphenyl	61 %	36-119	2	03/27/14	kb	03/28/14	avl		
Terphenyl-d14	67 %	37-109	2	03/27/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-09 Date Collected: 03/25/14 07:46 Matrix: Ground Water
 Sample ID: DUP-01 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	04/01/14	jan	04/01/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	04/01/14	jan	04/01/14	jn		

Surrogates:

1,2-Dichloroethane-d4	91 %		68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	87 %		75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	500	ug/L	4.9	5	03/27/14	kb	03/28/14	avl		
Surrogates:										
Nitrobenzene-d5	43 %		36-103	5	03/27/14	kb	03/28/14	avl		
2-Fluorobiphenyl	56 %		36-119	5	03/27/14	kb	03/28/14	avl		
Terphenyl-d14	64 %		37-109	5	03/27/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-10 Date Collected: 03/25/14 08:17 Matrix: Ground Water
 Sample ID: MW-35S Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	6.5	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	12	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	8900	ug/L	50	100	04/01/14	jan	04/01/14	jn		
m,p-Xylene	38000	ug/L	100	100	04/01/14	jan	04/01/14	jn	N	
o-Xylene	14000	ug/L	50	100	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	52000	ug/L	150	100	04/01/14	jan	04/01/14	jn		
Surrogates:										
1,2-Dichloroethane-d4	92	%	68-133	100	04/01/14	jan	04/01/14	jn		
1,2-Dichloroethane-d4	93	%	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	88	%	75-120	100	04/01/14	jan	04/01/14	jn		
Toluene-d8	91	%	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	13000	ug/L	99	100	03/27/14	kb	03/28/14	avl		
Surrogates:										
Nitrobenzene-d5	*	%	36-103	100	03/27/14	kb	03/28/14	avl	302	
2-Fluorobiphenyl	*	%	36-119	100	03/27/14	kb	03/28/14	avl	302	
Terphenyl-d14	*	%	37-109	100	03/27/14	kb	03/28/14	avl	302	

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-11 Date Collected: 03/25/14 09:37 Matrix: Ground Water
Sample ID: MW-32S Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	1.0 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	1100 ug/L	5.0	10	03/28/14	jan	03/28/14	jn		
m,p-Xylene	2500 ug/L	10	10	03/28/14	jan	03/28/14	jn	N	
o-Xylene	9.3 ug/L	5.0	10	03/28/14	jan	03/28/14	jn	N	
Xylenes, total	2600 ug/L	15	10	03/28/14	jan	03/28/14	jn		
Surrogates:									
1,2-Dichloroethane-d4	91 %	68-133	10	03/28/14	jan	03/28/14	jn		
1,2-Dichloroethane-d4	91 %	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	89 %	75-120	10	03/28/14	jan	03/28/14	jn		
Toluene-d8	88 %	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	44000 ug/L	470	500	03/27/14	kb	03/31/14	avl		
Surrogates:									
Nitrobenzene-d5	* %	36-103	500	03/27/14	kb	03/31/14	avl	302	
2-Fluorobiphenyl	* %	36-119	500	03/27/14	kb	03/31/14	avl	302	
Terphenyl-d14	* %	37-109	500	03/27/14	kb	03/31/14	avl	302	

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-12 Date Collected: 03/25/14 09:40 Matrix: Ground Water
 Sample ID: MW-29S Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	03/27/14	kb	03/28/14	avl		
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Surrogates:

Nitrobenzene-d5	68 %		36-103	1	03/27/14	kb	03/28/14	avl		
2-Fluorobiphenyl	68 %		36-119	1	03/27/14	kb	03/28/14	avl		
Terphenyl-d14	65 %		37-109	1	03/27/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-13 Date Collected: 03/25/14 10:13 Matrix: Ground Water
 Sample ID: MW-31S Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	1.1 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	880 ug/L	5.0	10	03/28/14	jan	03/28/14	jn		
m,p-Xylene	3300 ug/L	10	10	03/28/14	jan	03/28/14	jn	N	
o-Xylene	800 ug/L	5.0	10	03/28/14	jan	03/28/14	jn	N	
Xylenes, total	4100 ug/L	15	10	03/28/14	jan	03/28/14	jn		
Surrogates:									
1,2-Dichloroethane-d4	91 %	68-133	10	03/28/14	jan	03/28/14	jn		
1,2-Dichloroethane-d4	90 %	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	88 %	75-120	10	03/28/14	jan	03/28/14	jn		
Toluene-d8	90 %	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	9400 ug/L	97	100	03/27/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	* %	36-103	100	03/27/14	kb	03/28/14	avl	302	
2-Fluorobiphenyl	* %	36-119	100	03/27/14	kb	03/28/14	avl	302	
Terphenyl-d14	* %	37-109	100	03/27/14	kb	03/28/14	avl	302	

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-14 Date Collected: 03/25/14 11:24 Matrix: Ground Water
Sample ID: MW-25R Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044039

Benzene	<0.50	ug/L	0.50	1	03/31/14	klm	03/31/14	km		
Toluene	<0.50	ug/L	0.50	1	03/31/14	klm	03/31/14	km		
Ethylbenzene	<0.50	ug/L	0.50	1	03/31/14	klm	03/31/14	km		
m,p-Xylene	<1.0	ug/L	1.0	1	03/31/14	klm	03/31/14	km	N	
o-Xylene	<0.50	ug/L	0.50	1	03/31/14	klm	03/31/14	km	N	
Xylenes, total	<1.5	ug/L	1.5	1	03/31/14	klm	03/31/14	km		

Surrogates:

1,2-Dichloroethane-d4	81 %		68-133	1	03/31/14	klm	03/31/14	km		
Toluene-d8	88 %		75-120	1	03/31/14	klm	03/31/14	km		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	1.1	ug/L	1.0	1	03/27/14	kb	03/28/14	avl		
Surrogates:										
Nitrobenzene-d5	73 %		36-103	1	03/27/14	kb	03/28/14	avl		
2-Fluorobiphenyl	73 %		36-119	1	03/27/14	kb	03/28/14	avl		
Terphenyl-d14	74 %		37-109	1	03/27/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-15 Date Collected: 03/25/14 13:03 Matrix: Ground Water
 Sample ID: MW-28I Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED BY	ANALYZED BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	41	ug/L	1.0	1	03/27/14	kb	03/28/14	avl
Surrogates:								
Nitrobenzene-d5	60	%	36-103	1	03/27/14	kb	03/28/14	avl
2-Fluorobiphenyl	63	%	36-119	1	03/27/14	kb	03/28/14	avl
Terphenyl-d14	67	%	37-109	1	03/27/14	kb	03/28/14	avl

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-16 Date Collected: 03/25/14 13:07 Matrix: Ground Water
 Sample ID: MW-08 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	34	ug/L	1.0	1	03/27/14	kb	03/28/14	avl		
Surrogates:										
Nitrobenzene-d5	58	%	36-103	1	03/27/14	kb	03/28/14	avl		
2-Fluorobiphenyl	58	%	36-119	1	03/27/14	kb	03/28/14	avl		
Terphenyl-d14	64	%	37-109	1	03/27/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-17 Date Collected: 03/25/14 13:43 Matrix: Ground Water
 Sample ID: MW-28S Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	220	ug/L	5.1	5	03/27/14	kb	03/31/14	avl		
Surrogates:										
Nitrobenzene-d5	52	%	36-103	5	03/27/14	kb	03/31/14	avl		
2-Fluorobiphenyl	63	%	36-119	5	03/27/14	kb	03/31/14	avl		
Terphenyl-d14	68	%	37-109	5	03/27/14	kb	03/31/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-18 Date Collected: 03/25/14 14:55 Matrix: Ground Water
Sample ID: MW-27S Date Received: 03/26/14 10:18

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044166

Benzene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/03/14	klm	04/03/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/03/14	klm	04/03/14	jn		

Surrogates:

1,2-Dichloroethane-d4	101 %	68-133	1	04/03/14	klm	04/03/14	jn		
Toluene-d8	90 %	75-120	1	04/03/14	klm	04/03/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T043987

Bis(2-ethylhexyl)phthalate	1.2 ug/L	1.0	1	03/27/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	57 %	36-103	1	03/27/14	kb	03/28/14	avl		
2-Fluorobiphenyl	59 %	36-119	1	03/27/14	kb	03/28/14	avl		
Terphenyl-d14	71 %	37-109	1	03/27/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-19 Date Collected: 03/25/14 Matrix: Aqueous
Sample ID: TRIP BLANK #1 Date Received: 03/26/14 10:18

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044038

Benzene	<0.50	ug/L	0.50	1	03/28/14	jan	03/28/14	jn		
Toluene	<0.50	ug/L	0.50	1	03/28/14	jan	03/28/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	03/28/14	jan	03/28/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	03/28/14	jan	03/28/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	03/28/14	jan	03/28/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	03/28/14	jan	03/28/14	jn		

Surrogates:

1,2-Dichloroethane-d4	95 %		68-133	1	03/28/14	jan	03/28/14	jn		
Toluene-d8	89 %		75-120	1	03/28/14	jan	03/28/14	jn		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-20 Date Collected: 03/26/14 07:50 Matrix: Ground Water
Sample ID: MW-33S Date Received: 03/27/14 14:02

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044166

Benzene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/03/14	klm	04/03/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/03/14	klm	04/03/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/03/14	klm	04/03/14	jn		

Surrogates:

1,2-Dichloroethane-d4	100 %	68-133	1	04/03/14	klm	04/03/14	jn		
Toluene-d8	94 %	75-120	1	04/03/14	klm	04/03/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	6900 ug/L	200	200	03/28/14	kb	03/31/14	avl		
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Surrogates:

Nitrobenzene-d5	* %	36-103	200	03/28/14	kb	03/31/14	avl	302	
2-Fluorobiphenyl	* %	36-119	200	03/28/14	kb	03/31/14	avl	302	
Terphenyl-d14	* %	37-109	200	03/28/14	kb	03/31/14	avl	302	

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-21 Date Collected: 03/26/14 07:59 Matrix: Aqueous
 Sample ID: RB-01 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/01/14	jan	04/01/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/01/14	jan	04/01/14	jn		

Surrogates:

1,2-Dichloroethane-d4	89 %	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	88 %	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	03/28/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	70 %	36-103	1	03/28/14	kb	03/28/14	avl		
2-Fluorobiphenyl	69 %	36-119	1	03/28/14	kb	03/28/14	avl		
Terphenyl-d14	76 %	37-109	1	03/28/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-22 Date Collected: 03/26/14 08:25 Matrix: Aqueous
 Sample ID: ATM-01 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50 ug/L		0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50 ug/L		0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	<0.50 ug/L		0.50	1	04/01/14	jan	04/01/14	jn		
m,p-Xylene	<1.0 ug/L		1.0	1	04/01/14	jan	04/01/14	jn	N	
o-Xylene	<0.50 ug/L		0.50	1	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	<1.5 ug/L		1.5	1	04/01/14	jan	04/01/14	jn		

Surrogates:

1,2-Dichloroethane-d4	91 %		68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	87 %		75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	<1.0 ug/L		1.0	1	03/28/14	kb	03/28/14	avl		
Surrogates:										
Nitrobenzene-d5	62 %		36-103	1	03/28/14	kb	03/28/14	avl		
2-Fluorobiphenyl	69 %		36-119	1	03/28/14	kb	03/28/14	avl		
Terphenyl-d14	79 %		37-109	1	03/28/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-23 Date Collected: 03/26/14 08:40 Matrix: Aqueous
Sample ID: RB-02 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/01/14	jan	04/01/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/01/14	jan	04/01/14	jn		

Surrogates:

1,2-Dichloroethane-d4	92 %	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	87 %	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	03/28/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	65 %	36-103	1	03/28/14	kb	03/28/14	avl		
2-Fluorobiphenyl	68 %	36-119	1	03/28/14	kb	03/28/14	avl		
Terphenyl-d14	74 %	37-109	1	03/28/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-24 Date Collected: 03/26/14 08:45 Matrix: Surface Water
Sample ID: SW-D-4 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/01/14	jan	04/01/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/01/14	jan	04/01/14	jn		

Surrogates:

1,2-Dichloroethane-d4	93 %	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	87 %	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	1.2 ug/L	1.0	1	03/28/14	kb	03/28/14	avl		
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Surrogates:

Nitrobenzene-d5	55 %	36-103	1	03/28/14	kb	03/28/14	avl		
2-Fluorobiphenyl	60 %	36-119	1	03/28/14	kb	03/28/14	avl		
Terphenyl-d14	63 %	37-109	1	03/28/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-25 Date Collected: 03/26/14 08:47 Matrix: Surface Water
Sample ID: Dup-02 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/01/14	jan	04/01/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/01/14	jan	04/01/14	jn		
Surrogates:									
1,2-Dichloroethane-d4	92 %	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	87 %	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	03/28/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	67 %	36-103	1	03/28/14	kb	03/28/14	avl		
2-Fluorobiphenyl	68 %	36-119	1	03/28/14	kb	03/28/14	avl		
Terphenyl-d14	67 %	37-109	1	03/28/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-26 Date Collected: 03/26/14 08:56 Matrix: Surface Water
 Sample ID: SW-D-3 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044126

Benzene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Toluene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	04/01/14	jan	04/01/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	04/01/14	jan	04/01/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	04/01/14	jan	04/01/14	jn		
Surrogates:										
1,2-Dichloroethane-d4	91	%	68-133	1	04/01/14	jan	04/01/14	jn		
Toluene-d8	87	%	75-120	1	04/01/14	jan	04/01/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	2.6	ug/L	1.0	1	03/28/14	kb	03/28/14	avl		
Surrogates:										
Nitrobenzene-d5	*	32	%	36-103	1	03/28/14	kb	03/28/14	avl	802
2-Fluorobiphenyl		37	%	36-119	1	03/28/14	kb	03/28/14	avl	
Terphenyl-d14		49	%	37-109	1	03/28/14	kb	03/28/14	avl	

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-27 Date Collected: 03/26/14 09:03 Matrix: Surface Water
Sample ID: SW-D-2 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044039

Benzene	<0.50 ug/L	0.50	1	03/31/14	klm	03/31/14	km		
Toluene	<0.50 ug/L	0.50	1	03/31/14	klm	03/31/14	km		
Ethylbenzene	<0.50 ug/L	0.50	1	03/31/14	klm	03/31/14	km		
m,p-Xylene	<1.0 ug/L	1.0	1	03/31/14	klm	03/31/14	km	N	
o-Xylene	<0.50 ug/L	0.50	1	03/31/14	klm	03/31/14	km	N	
Xylenes, total	<1.5 ug/L	1.5	1	03/31/14	klm	03/31/14	km		

Surrogates:

1,2-Dichloroethane-d4	80 %	68-133	1	03/31/14	klm	03/31/14	km		
Toluene-d8	85 %	75-120	1	03/31/14	klm	03/31/14	km		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	3.4 ug/L	1.0	1	03/28/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	56 %	36-103	1	03/28/14	kb	03/28/14	avl		
2-Fluorobiphenyl	58 %	36-119	1	03/28/14	kb	03/28/14	avl		
Terphenyl-d14	62 %	37-109	1	03/28/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-28 Date Collected: 03/26/14 09:14 Matrix: Surface Water
Sample ID: SW-D-1 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044183

Benzene	<0.50 ug/L	0.50	1	04/04/14	klm	04/04/14	jn		
Toluene	<0.50 ug/L	0.50	1	04/04/14	klm	04/04/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	04/04/14	klm	04/04/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	04/04/14	klm	04/04/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	04/04/14	klm	04/04/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	04/04/14	klm	04/04/14	jn		

Surrogates:

1,2-Dichloroethane-d4	111 %	68-133	1	04/04/14	klm	04/04/14	jn		
Toluene-d8	94 %	75-120	1	04/04/14	klm	04/04/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044014

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	03/28/14	kb	03/28/14	avl		
Surrogates:									
Nitrobenzene-d5	69 %	36-103	1	03/28/14	kb	03/28/14	avl		
2-Fluorobiphenyl	70 %	36-119	1	03/28/14	kb	03/28/14	avl		
Terphenyl-d14	76 %	37-109	1	03/28/14	kb	03/28/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

Trace ID: T14C338-29 Date Collected: 03/26/14 Matrix: Aqueous
Sample ID: Trip Blank #2 Date Received: 03/27/14 14:02

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
------------	---------	-------	-----	----------	----------	----	----------	----	-------	-----

VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T044166

Benzene	<0.50	ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
Toluene	<0.50	ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	04/03/14	klm	04/03/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	04/03/14	klm	04/03/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	04/03/14	klm	04/03/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	04/03/14	klm	04/03/14	jn		
Surrogates:										
1,2-Dichloroethane-d4	100	%	68-133	1	04/03/14	klm	04/03/14	jn		
Toluene-d8	96	%	75-120	1	04/03/14	klm	04/03/14	jn		

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QUALITY CONTROL RESULTS

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

QC Batch: T043987

Analysis Description: Semi-volatiles, Phthalates only

QC Batch Method: EPA 3510C Separatory Funnel
Liquid-Liquid Extr.

Analysis Method: EPA 8270C

METHOD BLANK: T043987-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<1.0	1.0	
Nitrobenzene-d5 (S)	%	61	36-103	
2-Fluorobiphenyl (S)	%	69	36-119	
Terphenyl-d14 (S)	%	77	37-109	

LABORATORY CONTROL SAMPLE: T043987-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	78.6	79	57-107	
Nitrobenzene-d5 (S)	%	100	65.8	66	36-103	
2-Fluorobiphenyl (S)	%	100	71.9	72	36-119	
Terphenyl-d14 (S)	%	100	76.8	77	37-109	

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

QC Batch: T044014

Analysis Description: Semi-volatiles, Phthalates only

QC Batch Method: EPA 3510C Separatory Funnel
Liquid-Liquid Extr.

Analysis Method: EPA 8270C

METHOD BLANK: T044014-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<1.0	1.0	
Nitrobenzene-d5 (S)	%	66	36-103	
2-Fluorobiphenyl (S)	%	70	36-119	
Terphenyl-d14 (S)	%	75	37-109	

LABORATORY CONTROL SAMPLE: T044014-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	82.4	82	57-107	
Nitrobenzene-d5 (S)	%	100	72.4	72	36-103	
2-Fluorobiphenyl (S)	%	100	78.9	79	36-119	
Terphenyl-d14 (S)	%	100	79.3	79	37-109	

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

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QC Batch: T044400

Analysis Description: Semi-volatiles, Phthalates only

QC Batch Method: EPA 3510C Separatory Funnel
Liquid-Liquid Extr.

Analysis Method: EPA 8270C

METHOD BLANK: T044400-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<1.0	1.0	
Nitrobenzene-d5 (S)	%	67	36-103	
2-Fluorobiphenyl (S)	%	74	36-119	
Terphenyl-d14 (S)	%	82	37-109	

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

QC Batch: T044038

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T044038-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	90	68-133	
Toluene-d8 (S)	%	89	75-120	

LABORATORY CONTROL SAMPLE: T044038-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.1	100	80-120	
Toluene	ug/L	20.0	19.8	99	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	26.5	88	68-133	
Toluene-d8 (S)	%	30.0	27.3	91	75-120	

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

QC Batch: T044039

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T044039-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	

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METHOD BLANK: T044039-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	87	68-133	
Toluene-d8 (S)	%	90	75-120	

LABORATORY CONTROL SAMPLE: T044039-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	21.6	108	80-120	
Toluene	ug/L	20.0	23.0	115	80-120	
1,2-Dichloroethane-d4 (S)	%	55.0	45.2	82	68-133	
Toluene-d8 (S)	%	55.0	48.0	87	75-120	

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

QC Batch: T044126

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T044126-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	90	68-133	
Toluene-d8 (S)	%	86	75-120	

LABORATORY CONTROL SAMPLE: T044126-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.7	104	80-120	
Toluene	ug/L	20.0	20.3	101	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	26.7	89	68-133	
Toluene-d8 (S)	%	30.0	26.8	89	75-120	

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

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QC Batch: T044128

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T044128-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	93	68-133	
Toluene-d8 (S)	%	95	75-120	

LABORATORY CONTROL SAMPLE: T044128-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	17.6	88	80-120	
Toluene	ug/L	20.0	19.9	99	80-120	
1,2-Dichloroethane-d4 (S)	%	49.9	43.9	88	68-133	
Toluene-d8 (S)	%	49.9	48.3	97	75-120	

Trace Project ID: T14C338

Client Project ID: LEC 212321.000001.000000

QC Batch: T044131

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T044131-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	90	68-133	
Toluene-d8 (S)	%	88	75-120	

LABORATORY CONTROL SAMPLE: T044131-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.2	96	80-120	
Toluene	ug/L	20.0	18.6	93	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	26.1	87	68-133	
Toluene-d8 (S)	%	30.0	26.6	89	75-120	

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Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

QC Batch: T044166	Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
QC Batch Method: EPA 8260B	Analysis Method: EPA 8260B

METHOD BLANK: T044166-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	99	68-133	
Toluene-d8 (S)	%	98	75-120	

LABORATORY CONTROL SAMPLE: T044166-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	24.2	121	80-120	112
Toluene	ug/L	20.0	25.0	125	80-120	112
1,2-Dichloroethane-d4 (S)	%	49.9	51.6	104	68-133	
Toluene-d8 (S)	%	49.9	47.6	95	75-120	

Trace Project ID: T14C338
Client Project ID: LEC 212321.000001.000000

QC Batch: T044183	Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
QC Batch Method: EPA 8260B	Analysis Method: EPA 8260B

METHOD BLANK: T044183-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	102	68-133	
Toluene-d8 (S)	%	93	75-120	

LABORATORY CONTROL SAMPLE: T044183-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	20.0	100	80-120	
Toluene	ug/L	20.0	20.4	102	80-120	

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2241 Black Creek Road
Muskegon, MI 49444-2673
info@trace-labs.com
www.trace-labs.com

LABORATORY CONTROL SAMPLE: T044183-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
1,2-Dichloroethane-d4 (S)	%	49.9	50.5	101	68-133	
Toluene-d8 (S)	%	49.9	47.5	95	75-120	

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CHAIN-OF-CUSTODY RECORD

Page 1 of 2

TRACE ID NO. T14C338

Report Results To:

Client Name: TRC

Contact Person: Scott Paulkiewicz

Mailing Address: 2025 East St. Beltline Ave Ste 402

City, State, Zip Code: Grand Rapids MI 49546

Phone: 616 975 5415 Fax: 616 975 1098

Email Address:

Cell #:

Project Name & #: LEC 212341.000001.000000

Sampled by: DM, DPS

Bill To:

Billing Address (if different):

City, State, Zip Code: Windsor CT

Attn: _____ Phone: _____ PO #: _____

Request for Analytical Services				Please Sign		
TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBER OF CONTAINERS
1	03/24/14	1152		SW-D-5	W	2
2	03/24/14	1205		DRG-02	W	2
3	03/24/14	1227		SW-R-1	W	2
4	03/24/14	1238		SW-R-2	W	2
5	03/24/14	1305		SW-R-3	W	2
6	03/24/14	1312		SW-R-4	W	2
7	03/24/14	1456		SW-R-6	W	2
8	03/25/14	0743		MW-345	W	2
9	03/25/14	0746		DUP-01	W	2
10	03/25/14	0817		MW-355	W	2

Item #	RELEASED BY	RECEIVED BY	DATE	TIME	Item #	RELEASED BY	RECEIVED BY	DATE	TIME
1	<u>Q. M. P.</u>	<u>F. D. E. K.</u>	<u>03/25/14</u>	<u>1600</u>	3				
2	<u>F. D. E. K.</u>	<u>Q. M. P.</u>	<u>3/24/14</u>	<u>10:18</u>	4				

TRACE USE ONLY

Logged By: DM Checked By: Q. M. P.

Received on ice: Yes No Preservative Checked: Yes N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements: MERA TMDLs Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)* * Requires prior approval

Matrix Key: S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste

WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge

ANALYSIS REQUESTED

REMARKS

Possible Health Hazard

BTEX DEHP

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CHAIN-OF-CUSTODY RECORD

Page 2 of 2

TRACE ID NO. T14C338

Report Results To:

Client Name: TRC
 Contact Person: Scott Kulciewicz
 Mailing Address: 2025 East Bellline Ave Ste 402
 City, State, Zip Code: Grand Rapids MI 49576
 Phone: 616 975 5415 Fax: 616 975-1098
 Email Address: _____
 Cell #: _____
 Project Name & #: LEC 212321, 000001, 000000
 Billing Address (if different): _____
 City, State, Zip Code: Windsor CT
 Attn: _____ Phone: _____ PO #: _____

TRACE USE ONLY

Logged By: JV Checked By: Dr
 Received on ice: Yes No Preservative Checked: Yes N/A
 Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time: _____

Regulatory Requirements: MERA TMDL's Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)*
 Drinking Water NPDES USACE Special * Requires prior approval

Matrix Key: S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste
 WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge

ANALYSIS REQUESTED

Request for Analytical Services		Request for Analytical Services		Request for Analytical Services		Request for Analytical Services		Request for Analytical Services		Request for Analytical Services	
TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBER OF CONTAINERS	REMARKS	DATE	TIME	DATE	TIME
10	03/25/14	0820		MW-355MS/MSD	W	2					
11	03/25/14	0937		MW-325	W	2					
12	03/25/14	0940		MW-295	W	2					
13	03/25/14	1013		MW-315	W	2					
14	03/25/14	1124		MW-25R	W	2					
15	03/25/14	1303		MW-28I	W	2					
16	03/25/14	1307		MW-08	W	2					
17	03/25/14	1349		MW-28S	W	2					
18	03/25/14	1455		MW-27S	W	2					
19	-	-		TRIP Blank	W	2					

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1
 TRACE ID NO. T14C338

Report Results To:

Client Name: LEC
 Contact Person: Scott Rudolph
 Mailing Address: 2025 East Bellvue Ave Ste 402
 City, State, Zip Code: Grand Rapids MI 494156
 Phone: 616 975 5115 Fax: 616 975 1098
 Email Address:
 Cell #:
 Project Name & #: LEC 212321000001.000000
 Sampled by: DM DPS

Bill To:

Billing Address (if different):
 City, State, Zip Code: Windsor CT
 Attn: _____ Phone: _____ PO #: _____

Request for Analytical Services				RELEASED BY		RECEIVED BY		DATE	TIME	Item #	RELEASED BY		RECEIVED BY		DATE	TIME		
TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CUSTOMER SAMPLE ID	MATRIX	NUMBER OF CONTAINERS	REMARKS		Possible Health Hazard		Item #	RECEIVED BY		DATE	TIME			
20	03/26/14	0750		MW-335	W	4	BTEX DEHP				3	[Signature]		03/26/14	1115			
21	03/26/14	0759		RB-02	W	4					4	[Signature]		3	[Signature]		03/26/14	1115
22	03/26/14	0825		ATM-01	W	4					4	[Signature]		4	[Signature]		03/26/14	1430
23	03/26/14	0840		RD-02	W	4					4	[Signature]		4	[Signature]		03/26/14	1430
24	03/26/14	0845		SW-D-4	W	4					4	[Signature]		4	[Signature]		03/26/14	1430
25	03/26/14	0847		SW-D-3	W	4					4	[Signature]		4	[Signature]		03/26/14	1430
26	03/26/14	0856		SW-D-2	W	4					4	[Signature]		4	[Signature]		03/26/14	1430
27	03/26/14	0903		SW-D-1	W	4					4	[Signature]		4	[Signature]		03/26/14	1430
28	03/26/14	0914		TRIP BLANK	W	2	[Signature]				4	[Signature]		03/26/14	1430			
1	RELEASED BY	[Signature]		RECEIVED BY	[Signature]	DATE	TIME	Item #	RELEASED BY	[Signature]	DATE	TIME	Item #	RELEASED BY	[Signature]	DATE	TIME	
2	RELEASED BY	[Signature]		RECEIVED BY	[Signature]	DATE	TIME	Item #	RELEASED BY	[Signature]	DATE	TIME	Item #	RELEASED BY	[Signature]	DATE	TIME	

TRACE USE ONLY

Logged By: [Signature] Checked By: [Signature]
 Received on ice: Yes No Preservative Checked: Yes No
 Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Regulatory Requirements: MEPA TMDLs Drinking Water NPDES USACE Special
 Turnaround Requirements: Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)* * Requires prior approval

Matrix Key: W = Water, S = Soil, SE = Sediment, OI = Oil, SO = Solid Waste, WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water, SL = Sludge

ANALYSIS REQUESTED

CERTIFICATE OF ANALYSIS

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In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at <http://www.trace-labs.com/coctermis.php>

SAMPLE LOG IN CHECKLIST

Trace ID #: T14C338 Date: 3/26/14 Package Description: COOLCN #4
Client Name: TLC Time: 10:18 Logged in by: JV

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: _____
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice: <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.2</u> °C Digital Stick Thermometer <u>0.1</u> °C</p> <p>Temperature Blank: <u>1.7</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>-3.4 - -2.1</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
--	--

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14C338 Date: 3/26/14 Package Description: COOLANT #3
Client Name: TAL Time: 10:18 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: _____
COC Seals present and intact on cooler? No Not Applicable
Yes
Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.2</u> °C Digital Stick Thermometer <u>0.1</u> °C</p> <p>Temperature Blank: <u>1.0</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>2.7 - 0.2</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>SWR3 13.0 on Bottle</u>
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>COOLANT 15.05</u>
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>See Below*</u>
Correct preservative added to samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Air bubbles absent from VOAs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14C 338 Date: 3/26/14 Package Description: COOLANT # 2
Client Name: TAL Time: 10:18 Logged in by: JLW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: _____
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.2</u> °C Digital Stick Thermometer <u>-0.1</u> °C</p> <p>Temperature Blank: <u>3.6</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>4.5 - 3.2</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>NEW - 08' ANOVA 1 BOTTLE</u>
Each sample point is in a sealed plastic bag?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>See Below*</u>
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: 1HC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14C338 Date: 3/26/14 Package Description: Cooler #1
Client Name: TRC Time: 10:18 Logged in by: JV

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: _____
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used	Cooler Temperature
Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/>	Correction Factor: IR Thermometer <u>0.2</u> °C
Multiple bags of ice around samples? <input type="checkbox"/>	Digital Stick Thermometer <u>0.1</u> °C
Ice Packs/ Blue Ice : <input type="checkbox"/>	Temperature Blank: <u>2.5</u> °C (Use Digital Stick Thermometer)
No Coolant Present: <input type="checkbox"/>	Range of 3 samples: <u>-2.9 - -1.6</u> °C (Use IR Thermometer)
	Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)
	Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14C338 Date: 3/27/14 Package Description: COOLER #3
Client Name: TRC Time: 14502 Logged in by: _____

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 794934191985
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.2</u> °C Digital Stick Thermometer <u>-0.1</u> °C</p> <p>Temperature Blank: <u>1.0</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>-2.5 - -1.8</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
---	---

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

CERTIFICATE OF ANALYSIS

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14C 338 (COM) Date: 3/27/14 Package Description: COOLANT #2
Client Name: TRC Time: 14:02 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 79493419 1985
COC Seals present and intact on cooler? No Not Applicable
Yes
Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice?
Multiple bags of ice around samples?
Ice Packs/ Blue Ice :
No Coolant Present:

Cooler Temperature

Correction Factor: IR Thermometer 0.2 °C
Digital Stick Thermometer 0.1 °C
Temperature Blank: 3.4 °C (Use Digital Stick Thermometer)
Range of 3 samples: -1.1 - 2.8 °C (Use IR Thermometer)
Melt Water: 0 °C (IR or Stick Therm. - circle one)
Ice still present upon receipt: Yes No

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Air bubbles absent from VOAs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 pH 11.0-13.0
Lot: IHC390427 Lot: HC949254
 Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14C338 (cont) Date: 3/27/14 Package Description: COOLANT #1
Client Name: TRC Time: 14:02 Logged in by: TV

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 7949 7419 1985
COC Seals present and intact on cooler? No Not Applicable
Yes
Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.2</u> °C Digital Stick Thermometer <u>0.1</u> °C</p> <p>Temperature Blank: <u>2.0</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>-2.0 - -1.7</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>Ø</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: 1HC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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L.E. Carpenter

212321.2014.0000.000001

Laboratory Data Review for Batch T14D304 by Terry Hertz on 6/30/2014

Four surface water samples were collected on April 17, 2014, and submitted to Trace for analysis. Samples were analyzed for bis(2-ethylhexyl)phthalate. Samples arrived at the laboratory preserved at an appropriate temperature. Chains-of-Custody were signed. Samples were analyzed within hold times.

Laboratory reported QC data for bis(2-ethylhexyl)phthalate were reviewed and the findings are described below.

Organic Surrogates

Organic surrogate recoveries were within QC limits.

Blanks

The method blank was free of detections.

Laboratory Control Sample (LCS)

LCS recoveries are within control limits.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

MS/MSD analyses were not performed.

Laboratory duplicate

A laboratory duplicate analysis was not performed.

Field duplicates

A field duplicate sample was not collected.

April 25, 2014

Mr. Scott Pawlukiewicz
TRC Solutions
2025 E. Beltline Ave., SE, Ste 402
Grand Rapids, MI 49546

Phone: (201) 636-5884
Fax: (616) 975-1098

RE: Trace Project T14D304
Client Project LEC 212321.000001.000000

Dear Mr. Pawlukiewicz:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,



Jon Mink
Senior Project Manager
Enclosures



NJDEP Accreditation No. MI008 PADEP Accreditation No. 68-04471

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phone 231.773.5998
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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
info@trace-labs.com
www.trace-labs.com

SAMPLE SUMMARY

Trace Project ID: T14D304
Client Project ID: LEC 212321.000001.000000

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T14D304-01	MW-30SR	Surface Water	dm	04/17/14 11:01	04/18/14 11:37
T14D304-02	MW-30I	Surface Water	dm	04/17/14 11:59	04/18/14 11:37
T14D304-03	MW-30D	Surface Water	dm	04/17/14 12:25	04/18/14 11:37
T14D304-04	SW-R-4	Surface Water	dm	04/17/14 12:34	04/18/14 11:37

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.

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 Muskegon, MI 49444-2673
 info@trace-labs.com
 www.trace-labs.com

ANALYTICAL RESULTS

Trace Project ID: T14D304
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14D304-01 Date Collected: 04/17/14 11:01 Matrix: Surface Water
 Sample ID: MW-30SR Date Received: 04/18/14 11:37

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044570

Bis(2-ethylhexyl)phthalate	11	ug/L	1.0	1	04/22/14	kb	04/23/14	avl		
Surrogates:										
Nitrobenzene-d5	64	%	36-103	1	04/22/14	kb	04/23/14	avl		
2-Fluorobiphenyl	70	%	36-119	1	04/22/14	kb	04/23/14	avl		
Terphenyl-d14	72	%	37-109	1	04/22/14	kb	04/23/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14D304
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14D304-02 Date Collected: 04/17/14 11:59 Matrix: Surface Water
 Sample ID: MW-30I Date Received: 04/18/14 11:37

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044570

Bis(2-ethylhexyl)phthalate	1.8	ug/L	1.0	1	04/22/14	kb	04/23/14	avl		
Surrogates:										
Nitrobenzene-d5	73	%	36-103	1	04/22/14	kb	04/23/14	avl		
2-Fluorobiphenyl	73	%	36-119	1	04/22/14	kb	04/23/14	avl		
Terphenyl-d14	71	%	37-109	1	04/22/14	kb	04/23/14	avl		

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 www.trace-labs.com

ANALYTICAL RESULTS

Trace Project ID: T14D304
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14D304-03 Date Collected: 04/17/14 12:25 Matrix: Surface Water
 Sample ID: MW-30D Date Received: 04/18/14 11:37

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044570

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	04/22/14	kb	04/23/14	avl		
----------------------------	------	------	-----	---	----------	----	----------	-----	--	--

Surrogates:

Nitrobenzene-d5	58 %		36-103	1	04/22/14	kb	04/23/14	avl		
2-Fluorobiphenyl	67 %		36-119	1	04/22/14	kb	04/23/14	avl		
Terphenyl-d14	76 %		37-109	1	04/22/14	kb	04/23/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14D304
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14D304-04 Date Collected: 04/17/14 12:34 Matrix: Surface Water
 Sample ID: SW-R-4 Date Received: 04/18/14 11:37

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T044570

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	04/22/14	kb	04/23/14	avl		
----------------------------	------	------	-----	---	----------	----	----------	-----	--	--

Surrogates:

Nitrobenzene-d5	69 %		36-103	1	04/22/14	kb	04/23/14	avl		
2-Fluorobiphenyl	73 %		36-119	1	04/22/14	kb	04/23/14	avl		
Terphenyl-d14	73 %		37-109	1	04/22/14	kb	04/23/14	avl		

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QUALITY CONTROL RESULTS

Trace Project ID: T14D304

Client Project ID: LEC 212321.000001.000000

QC Batch: T044570	Analysis Description: Semi-volatiles, Phthalates only
QC Batch Method: EPA 3510C Separatory Funnel Liquid-Liquid Extr.	Analysis Method: EPA 8270C

METHOD BLANK: T044570-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<1.0	1.0	
Nitrobenzene-d5 (S)	%	51	36-103	
2-Fluorobiphenyl (S)	%	56	36-119	
Terphenyl-d14 (S)	%	60	37-109	

LABORATORY CONTROL SAMPLE: T044570-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	81.9	82	57-107	
Nitrobenzene-d5 (S)	%	100	73.2	73	36-103	
2-Fluorobiphenyl (S)	%	100	74.7	75	36-119	
Terphenyl-d14 (S)	%	100	81.1	81	37-109	

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CHAIN-OF-CUSTODY RECORD

Page 1 of 1

TRACE ID NO. T140304

Request for Analytical Services				Bill To:		Report Results To:						
TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBER OF CONTAINERS	REMARKS	REGULATORY REQUIREMENTS	TURNAROUND REQUIREMENTS	MATRIX KEY	POSSIBLE HEALTH HAZARD	
1	04/17/14	1101		MW-30SR	W	2		<input type="checkbox"/> MERA TMDL's <input type="checkbox"/> Drinking Water <input type="checkbox"/> NPDES <input type="checkbox"/> USACE Special	<input type="checkbox"/> Standard <input checked="" type="checkbox"/> 3-4 Day (RUSH)* <input type="checkbox"/> 24-48 Hour (RUSH)* * Requires prior approval	S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste	WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge	
2	04/17/14	1159		MW-30I	W	2						
3	04/17/14	1225		MW-30D	W	2						
4	04/17/14	1234		SW-R-4	W	2						
In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocoterm.php												

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SAMPLE LOG IN CHECKLIST

Trace ID #: 7140304 Date: 4/16/14 Package Description: COOLANT
 Client Name: TAL Time: 11:37 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
 Hand delivered Name of delivery person: _____
 Commercial courier UPS FED EX US Mail
 Tracking Number: Not Applicable
 Tracking #: 8058 5079 8101
 COC Seals present and intact on cooler? No Not Applicable
 Yes
 Custody seals signed by Client? No Client custody seal # (if applicable): _____
 Yes

Coolant and Temperature

<h4>Type of Coolant Used</h4> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/> Multiple bags of ice around samples? <input type="checkbox"/> Ice Packs/ Blue Ice : <input type="checkbox"/> No Coolant Present: <input type="checkbox"/></p>	<h4>Cooler Temperature</h4> <p>Correction Factor: IR Thermometer <u>0.2</u> °C Digital Stick Thermometer <u>0.1</u> °C Temperature Blank: <u>1.1</u> °C (Use Digital Stick Thermometer) Range of 3 samples: <u>-3.3 - -1.5</u> °C (Use IR Thermometer) Melt Water: <u>Ø</u> °C (IR or Stick Therm. - circle one) Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
--	--

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

*EMD pH Test Strips Used:

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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L.E. Carpenter

212321.2014.0000.000001

Laboratory Data Review for Batch T14F048 by Terry Hertz on 7/1/2014

Twenty eight groundwater and surface water samples, two field duplicates, two rinsate blanks and an atmospheric blank were collected June 2-4, 2014, and submitted to Trace for analysis. Samples were analyzed for one or more of the following analytes: Benzene, toluene, ethylbenzene, xylenes, dissolved lead, bis(2-ethylhexyl)phthalate, phosphorus, nitrate, sulfate, ammonia, total dissolved solids (TDS), total suspended solids (TSS), methane, and heterotrophic bacteria plate count. Samples arrived at the laboratory preserved at an appropriate temperature. Chains-of-Custody were signed. Samples were analyzed within hold times.

Laboratory reported QC data for the various analyses were reviewed and the findings are described below.

Organic Surrogates

Organic surrogate recoveries were within QC except as follows:

- Surrogate recoveries were not reported in several SVOC analyses because the sample extract was analyzed at a 10X or higher dilution. This is not unusual. Data usability not affected.
- Nitrobenzene-d5 recovery is below the lower QC limit in sample MW-30D. The other two base-neutral surrogates have acceptable recoveries. No flags are assigned.
-

Blanks

Method blanks, rinsate blanks, and the atmospheric blank were free of detections except as noted below:

- Bis(2-ethylhexyl)phthalate (BEHP) was detected in RB-01 at 1.9 ug/L. **Bis(2-ethylhexyl)phthalate in the following samples have comparable concentrations to BEHP in the RB-01; therefore, a "u" flag is assigned to the results to indicate that the detections are considered to be false positive detections: MW-30D, MW-30I, MW-30SR, and MW-29S.** Samples MW-34S, MW-28I and MW-25R have BEHP concentrations comparable to RB-01 but a "u" flag was not assigned after consideration of historical analytical results.
- TDS was detected in T045818-BLK1 at 16.0 mg/L. Associated samples with TDS detections are MW-08, MW-30I, MW-29S, MW-30SR, MW-28I, MW-30D, MW-28S, and MW-27S, all of which have concentrations well above that in the method blank. No flags were assigned.

Laboratory Control Sample (LCS)

LCS recoveries are within control limits.

Matrix Spike (MS)/ Matrix Spike Duplicate (MSD)

MS/MSD recoveries and RPDs are within control limits except as noted below. L.E. Carpenter samples used for MS/MSD analyses are also noted below.

- Methane – MW-25R used.
- Phosphorus - MW-25R used.
- Dissolved Lead – MW-25R used.
- BEHP – MW-25R used. Nominally (1%) low recovery in the MS, acceptable recovery in the MSD. The RPD was above QC limits. Lab data qualifiers indicate that the low MS recovery for BEHP in the MS was an extraction error. This led to high RPD result. No data flag added. Data usable.
- VOCs –MS/MSD not analyzed.
- Ammonia – MW-25R used.
- Nitrate and sulfate – MW-25R and MW-29S used. MS and MSD recoveries for sulfate in MW-25R were below the QC limit. **A “j-“ flag, indicating that the result is estimated and biased low, is assigned to sulfate in MW-25R.**

Laboratory duplicate

Laboratory duplicates were analyzed for TDS, TSS and HPC using one or both of MW-25R and MW-08 for each parameter. RPDs were acceptable except for TSS in MW-08. **TSS in MW-08 is assigned a “j” flag indicating that the result is an estimate.**

Field duplicates

DUP-01 is a field duplicate of MW-34S. DUP-02 is a field duplicate of SW-D-4. RPDs are calculated in the accompanying table. Most RPDs are <25%, which indicates acceptable precision. The RPD for TSS in the MW-35S/DUP-02 field duplicate pair are above 25%, but <50%, so the results are generally comparable but not indicative of high precision. The RPD for BEHP in the MW-35S/DUP-02 field duplicate pair is 67%. **BEHP in both MW-35S and DUP-02 is assigned a “j” flag indicating that the result is estimated.**

Sulfate results between MW-35S and DUP-02 are not comparable even though an RPD was not calculable. **Sulfate in DUP-02 is assigned a “j” flag indicating that the result is estimated. Sulfate in MW-35S is assigned a “uj” flag indicating that the non-detect result is questionable.**

June 16, 2014

Mr. Scott Pawlukiewicz
TRC Solutions
2025 E. Beltline Ave., SE, Ste 402
Grand Rapids, MI 49546

Phone: (201) 636-5884
Fax: (616) 975-1098

RE: Trace Project T14F048
Client Project LEC 212321.000001.000000

Dear Mr. Pawlukiewicz:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAC Accreditation, Trace certifies that these test results meet all requirements of the NELAC Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAC at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,



Jon Mink
Senior Project Manager
Enclosures



NJDEP Accreditation No. MI008 PADEP Accreditation No. 68-04471

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SAMPLE SUMMARY

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
T14F048-01	SW-D-5	Surface Water	dm/jl/dps	06/02/14 09:19	06/04/14 11:06
T14F048-02	DRC-02	Surface Water	dm/jl/dps	06/02/14 09:26	06/04/14 11:06
T14F048-03	SW-R-1	Surface Water	dm/jl/dps	06/02/14 09:40	06/04/14 11:06
T14F048-04	SW-R-3	Surface Water	dm/jl/dps	06/02/14 09:57	06/04/14 11:06
T14F048-05	SW-R-4	Surface Water	dm/jl/dps	06/02/14 10:10	06/04/14 11:06
T14F048-06	SW-R-2	Surface Water	dm/jl/dps	06/02/14 10:43	06/04/14 11:06
T14F048-07	SW-D-4	Surface Water	dm/jl/dps	06/02/14 13:04	06/04/14 11:06
T14F048-08	SW-D-3	Surface Water	dm/jl/dps	06/02/14 13:15	06/04/14 11:06
T14F048-09	SW-D-2	Surface Water	dm/jl/dps	06/02/14 13:22	06/04/14 11:06
T14F048-10	Dup-01	Surface Water	dm/jl/dps	06/02/14 13:27	06/04/14 11:06
T14F048-11	SW-D-1	Surface Water	dm/jl/dps	06/02/14 13:42	06/04/14 11:06
T14F048-12	RB-01	Aqueous	dm/jl/dps	06/02/14 14:30	06/04/14 11:06
T14F048-13	MW-19-7R	Ground Water	dm/dps/jl	06/03/14 09:08	06/04/14 11:06
T14F048-14	MW-19-13	Ground Water	dm/dps/jl	06/03/14 09:30	06/04/14 11:06
T14F048-15	MW-34S	Ground Water	dm/dps/jl	06/03/14 10:58	06/04/14 11:06
T14F048-16	MW-19-5R	Ground Water	dm/dps/jl	06/03/14 11:20	06/04/14 11:06
T14F048-17	MW-35S	Ground Water	dm/dps/jl	06/03/14 12:12	06/04/14 11:06
T14F048-18	Dup-02	Ground Water	dm/dps/jl	06/03/14 12:22	06/04/14 11:06
T14F048-19	MW-32S	Ground Water	dm/dps/jl	06/03/14 13:44	06/04/14 11:06
T14F048-20	MW-25R	Ground Water	dm/dps/jl	06/03/14 14:08	06/04/14 11:06
T14F048-21	MW-31S	Ground Water	dm/dps/jl	06/03/14 14:19	06/04/14 11:06
T14F048-22	MW-33S	Ground Water	dm/dps/jl	06/03/14 15:10	06/04/14 11:06
T14F048-23	MW-08	Ground Water	dps/jl/dm	06/04/14 09:28	06/05/14 11:33
T14F048-24	MW-30I	Ground Water	dps/jl/dm	06/04/14 09:30	06/05/14 11:33
T14F048-25	SW-R-6	Surface Water	dps/jl/dm	06/04/14 09:37	06/05/14 11:33
T14F048-26	ATM-01	Aqueous	dps/jl/dm	06/04/14 10:29	06/05/14 11:33
T14F048-27	MW-29S	Ground Water	dps/jl/dm	06/04/14 10:46	06/05/14 11:33
T14F048-28	MW-30SR	Ground Water	dps/jl/dm	06/04/14 10:55	06/05/14 11:33
T14F048-29	RB-02	Aqueous	dps/jl/dm	06/04/14 11:12	06/05/14 11:33
T14F048-30	MW-28I	Ground Water	dps/jl/dm	06/04/14 11:31	06/05/14 11:33
T14F048-31	MW-30D	Ground Water	dps/jl/dm	06/04/14 12:23	06/05/14 11:33
T14F048-32	MW-28S	Ground Water	dps/jl/dm	06/04/14 12:47	06/05/14 11:33
T14F048-33	MW-27S	Ground Water	dps/jl/dm	06/04/14 13:15	06/05/14 11:33

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the compound has not been evaluated by NELAC
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.

DATA QUALIFIERS

Trace ID: T045659-MSD1

Analysis: EPA 300.0 Rev. 2.1

Sulfate as SO₄	Note 205 : The MS and MSD recoveries were out of control low. The result and reporting limit for this analyte, in the non-spiked version of the sample, must be considered estimated.
----------------------------------	---

Trace ID: T045722-MSD1

Analysis: EPA 8270C

Bis(2-ethylhexyl)phthalate	Note 237.5 : Due to an extraction error, the MS recoveries were below QC criteria which resulted in the RPDs also being out of control. This is not deemed a matrix problem and no data require qualification.
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Trace ID: T045817-DUP1

Analysis: SM 2540 D-97

Total Suspended Solids	Note 623 : The relative percent difference between the sample and sample duplicate is out of control. The sample result should be considered estimated.
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Trace ID: T045818-BLK1

Analysis: SM 2540 C-97

Total Dissolved Solids	Note B : Analyte is found in the associated blank as well as in the sample (CLP B-flag).
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Trace ID: T14F048-17

Analysis: EPA 8270C

2-Fluorobiphenyl	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
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Nitrobenzene-d5	Note 302 : A dilution of 1:10 or greater was required on this sample. Consequently, surrogate recoveries are not available.
------------------------	---

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Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Trace ID: T14F048-18

Analysis: EPA 8270C

2-Fluorobiphenyl

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Nitrobenzene-d5

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Trace ID: T14F048-19

Analysis: EPA 8270C

2-Fluorobiphenyl

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Nitrobenzene-d5

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Trace ID: T14F048-20

Analysis: EPA 300.0 Rev. 2.1

Sulfate as SO4

Note 205 : The MS and MSD recoveries were out of control low. The result and reporting limit for this analyte, in the non-spiked version of the sample, must be considered estimated.

Trace ID: T14F048-21

Analysis: EPA 8270C

2-Fluorobiphenyl

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Nitrobenzene-d5

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Trace ID: T14F048-22

Analysis: EPA 8270C

2-Fluorobiphenyl

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Nitrobenzene-d5

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Terphenyl-d14

Note 302 : A dilution of 1:10 or greater was required on this sample.
Consequently, surrogate recoveries are not available.

Trace ID: T14F048-31

Analysis: EPA 8270C

Nitrobenzene-d5

Note 802 : One of the base/neutral surrogate recoveries was outside the control limits. Since the other two base/neutral surrogates were within the control limits, no data require qualification.

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-01 Date Collected: 06/02/14 09:19 Matrix: Surface Water
Sample ID: SW-D-5 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	104	%	68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	100	%	75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:										
Nitrobenzene-d5	60	%	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	60	%	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	61	%	37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-02 Date Collected: 06/02/14 09:26 Matrix: Surface Water
 Sample ID: DRC-02 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	107	%	68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	102	%	75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:										
Nitrobenzene-d5	53	%	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	51	%	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	47	%	37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-03 Date Collected: 06/02/14 09:40 Matrix: Surface Water
Sample ID: SW-R-1 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	107 %	68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	101 %	75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:									
Nitrobenzene-d5	58 %	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	59 %	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	60 %	37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-04 Date Collected: 06/02/14 09:57 Matrix: Surface Water
Sample ID: SW-R-3 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	108 %	68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	99 %	75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:									
Nitrobenzene-d5	53 %	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	52 %	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	55 %	37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-05 Date Collected: 06/02/14 10:10 Matrix: Surface Water
Sample ID: SW-R-4 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	108 %		68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	101 %		75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:										
Nitrobenzene-d5	46 %		36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	46 %		36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	46 %		37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-06 Date Collected: 06/02/14 10:43 Matrix: Surface Water
 Sample ID: SW-R-2 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	109 %		68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	100 %		75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:										
Nitrobenzene-d5	52 %		36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	52 %		36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	52 %		37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-07 Date Collected: 06/02/14 13:04 Matrix: Surface Water
Sample ID: SW-D-4 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	107 %		68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	100 %		75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/09/14	avl		
Surrogates:										
Nitrobenzene-d5	39 %		36-103	1	06/06/14	kb	06/09/14	avl		
2-Fluorobiphenyl	42 %		36-119	1	06/06/14	kb	06/09/14	avl		
Terphenyl-d14	52 %		37-109	1	06/06/14	kb	06/09/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-08 Date Collected: 06/02/14 13:15 Matrix: Surface Water
 Sample ID: SW-D-3 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	109 %		68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	102 %		75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:										
Nitrobenzene-d5	44 %		36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	45 %		36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	48 %		37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-09 Date Collected: 06/02/14 13:22 Matrix: Surface Water
Sample ID: SW-D-2 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	108 %	68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	100 %	75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:									
Nitrobenzene-d5	38 %	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	39 %	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	38 %	37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-10 Date Collected: 06/02/14 13:27 Matrix: Surface Water
 Sample ID: Dup-01 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045730

Benzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/05/14	jan	06/05/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/05/14	jan	06/05/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/05/14	jan	06/05/14	jn		

Surrogates:

1,2-Dichloroethane-d4	110	%	68-133	1	06/05/14	jan	06/05/14	jn		
Toluene-d8	99	%	75-120	1	06/05/14	jan	06/05/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:										
Nitrobenzene-d5	54	%	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	55	%	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	56	%	37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-11 Date Collected: 06/02/14 13:42 Matrix: Surface Water
 Sample ID: SW-D-1 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045809

Benzene	<0.50	ug/L	0.50	1	06/09/14	jan	06/09/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/09/14	jan	06/09/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/09/14	jan	06/09/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/09/14	jan	06/09/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/09/14	jan	06/09/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/09/14	jan	06/09/14	jn		

Surrogates:

1,2-Dichloroethane-d4	98 %		68-133	1	06/09/14	jan	06/09/14	jn		
Toluene-d8	99 %		75-120	1	06/09/14	jan	06/09/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/06/14	kb	06/09/14	avl		
Surrogates:										
Nitrobenzene-d5	64 %		36-103	1	06/06/14	kb	06/09/14	avl		
2-Fluorobiphenyl	68 %		36-119	1	06/06/14	kb	06/09/14	avl		
Terphenyl-d14	68 %		37-109	1	06/06/14	kb	06/09/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-12 Date Collected: 06/02/14 14:30 Matrix: Aqueous
Sample ID: RB-01 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045945

Benzene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Toluene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Ethylbenzene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
m,p-Xylene	<1.0 ug/L	1.0	1	06/11/14	klm	06/11/14	km	N	
o-Xylene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km	N	
Xylenes, total	<1.5 ug/L	1.5	1	06/11/14	klm	06/11/14	km		

Surrogates:

1,2-Dichloroethane-d4	114 %	68-133	1	06/11/14	klm	06/11/14	km		
Toluene-d8	90 %	75-120	1	06/11/14	klm	06/11/14	km		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	1.9 ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
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Surrogates:

Nitrobenzene-d5	46 %	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	49 %	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	51 %	37-109	1	06/06/14	kb	06/06/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-13 Date Collected: 06/03/14 09:08 Matrix: Ground Water
Sample ID: MW-19-7R Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045945

Benzene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km			
Toluene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km			
Ethylbenzene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km			
m,p-Xylene	<1.0 ug/L	1.0	1	06/11/14	klm	06/11/14	km		N	
o-Xylene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km		N	
Xylenes, total	<1.5 ug/L	1.5	1	06/11/14	klm	06/11/14	km			

Surrogates:

1,2-Dichloroethane-d4	116 %	68-133	1	06/11/14	klm	06/11/14	km			
Toluene-d8	89 %	75-120	1	06/11/14	klm	06/11/14	km			

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	<0.050 mg/L	0.050	1	06/06/14	kj	06/09/14	dtm			
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030 mg/L	0.0030	1	06/11/14	rw	06/13/14	rw			
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	1.7 mg/L	0.10	5	06/04/14	sv	06/04/14	sv			
Sulfate as SO4	27 mg/L	2.5	5	06/04/14	sv	06/04/14	sv			

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.018 mg/L	0.010	1	06/05/14	as	06/05/14	as			
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	1200 mg/L	10	1	06/05/14	eb	06/05/14	eb			
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Analysis Method: SM 2540 D-97

Batch: T045701

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-13 Date Collected: 06/03/14 09:08 Matrix: Ground Water
 Sample ID: MW-19-7R Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Total Suspended Solids	<4.0	mg/L	4.0	1	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	120	CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	120	ug/L	50	50	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-14 Date Collected: 06/03/14 09:30 Matrix: Ground Water
Sample ID: MW-19-13 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045945

Benzene	0.81 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Toluene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Ethylbenzene	6.4 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
m,p-Xylene	21 ug/L	1.0	1	06/11/14	klm	06/11/14	km	N	
o-Xylene	2.1 ug/L	0.50	1	06/11/14	klm	06/11/14	km	N	
Xylenes, total	23 ug/L	1.5	1	06/11/14	klm	06/11/14	km		
Surrogates:									
1,2-Dichloroethane-d4	109 %	68-133	1	06/11/14	klm	06/11/14	km		
Toluene-d8	89 %	75-120	1	06/11/14	klm	06/11/14	km		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	<0.050 mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030 mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10 mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
Sulfate as SO4	28 mg/L	2.5	5	06/04/14	sv	06/04/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.17 mg/L	0.010	1	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	510 mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-14 Date Collected: 06/03/14 09:30 Matrix: Ground Water
 Sample ID: MW-19-13 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	<13	mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	4.5	CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	20000	ug/L	500	500	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-15 Date Collected: 06/03/14 10:58 Matrix: Ground Water
Sample ID: MW-34S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045945

Benzene	1.1 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Toluene	<0.50 ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Ethylbenzene	430 ug/L	25	50	06/09/14	jan	06/09/14	jn		
m,p-Xylene	1200 ug/L	50	50	06/09/14	jan	06/09/14	jn	N	
o-Xylene	50 ug/L	0.50	1	06/11/14	klm	06/11/14	km	N	
Xylenes, total	1200 ug/L	75	50	06/09/14	jan	06/09/14	jn		
Surrogates:									
1,2-Dichloroethane-d4	113 %	68-133	1	06/11/14	klm	06/11/14	km		
1,2-Dichloroethane-d4	83 %	68-133	50	06/09/14	jan	06/09/14	jn		
Toluene-d8	90 %	75-120	1	06/11/14	klm	06/11/14	km		
Toluene-d8	79 %	75-120	50	06/09/14	jan	06/09/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	14 ug/L	1.0	1	06/06/14	kb	06/06/14	avl		
Surrogates:									
Nitrobenzene-d5	41 %	36-103	1	06/06/14	kb	06/06/14	avl		
2-Fluorobiphenyl	45 %	36-119	1	06/06/14	kb	06/06/14	avl		
Terphenyl-d14	42 %	37-109	1	06/06/14	kb	06/06/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.062 mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-15 Date Collected: 06/03/14 10:58 Matrix: Ground Water
 Sample ID: MW-34S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10	mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
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Sulfate as SO4	28	mg/L	2.5	5	06/04/14	sv	06/04/14	sv		
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Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.019	mg/L	0.010	1	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	560	mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	23	mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	3400	CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	4600	ug/L	100	100	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-16 Date Collected: 06/03/14 11:20 Matrix: Ground Water
 Sample ID: MW-19-5R Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045945

Benzene	3.7	ug/L	0.50	1	06/11/14	klm	06/12/14	km		
Toluene	11000	ug/L	50	100	06/12/14	klm	06/12/14	km		
Ethylbenzene	830	ug/L	25	50	06/09/14	jan	06/09/14	jn		
m,p-Xylene	2900	ug/L	50	50	06/09/14	jan	06/09/14	jn	N	
o-Xylene	760	ug/L	25	50	06/09/14	jan	06/09/14	jn	N	
Xylenes, total	3600	ug/L	75	50	06/09/14	jan	06/09/14	jn		
Surrogates:										
1,2-Dichloroethane-d4	109	%	68-133	1	06/11/14	klm	06/12/14	km		
1,2-Dichloroethane-d4	85	%	68-133	50	06/09/14	jan	06/09/14	jn		
1,2-Dichloroethane-d4	110	%	68-133	100	06/12/14	klm	06/12/14	km		
Toluene-d8	85	%	75-120	1	06/11/14	klm	06/12/14	km		
Toluene-d8	78	%	75-120	50	06/09/14	jan	06/09/14	jn		
Toluene-d8	87	%	75-120	100	06/12/14	klm	06/12/14	km		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.095	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-16 Date Collected: 06/03/14 11:20 Matrix: Ground Water
Sample ID: MW-19-5R Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10 mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
Sulfate as SO4	53 mg/L	2.5	5	06/04/14	sv	06/04/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.21 mg/L	0.010	1	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	820 mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	17 mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	32 CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	62000 ug/L	1000	1000	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-17 Date Collected: 06/03/14 12:12 Matrix: Ground Water
 Sample ID: MW-35S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045957

Benzene	1.5	ug/L	0.50	1	06/12/14	klm	06/13/14	km		
Toluene	4.9	ug/L	0.50	1	06/12/14	klm	06/13/14	km		
Ethylbenzene	8000	ug/L	2500	5000	06/09/14	jan	06/09/14	jn		
m,p-Xylene	34000	ug/L	5000	5000	06/09/14	jan	06/09/14	jn	N	
o-Xylene	9600	ug/L	2500	5000	06/09/14	jan	06/09/14	jn	N	
Xylenes, total	44000	ug/L	7500	5000	06/09/14	jan	06/09/14	jn		
Surrogates:										
1,2-Dichloroethane-d4	115	%	68-133	1	06/12/14	klm	06/13/14	km		
1,2-Dichloroethane-d4	86	%	68-133	5000	06/09/14	jan	06/09/14	jn		
Toluene-d8	86	%	75-120	1	06/12/14	klm	06/13/14	km		
Toluene-d8	79	%	75-120	5000	06/09/14	jan	06/09/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	6000	ug/L	50	50	06/06/14	kb	06/09/14	avl		
Surrogates:										
Nitrobenzene-d5	*	%	36-103	50	06/06/14	kb	06/09/14	avl	302	
2-Fluorobiphenyl	*	%	36-119	50	06/06/14	kb	06/09/14	avl	302	
Terphenyl-d14	*	%	37-109	50	06/06/14	kb	06/09/14	avl	302	

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.19	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-17 Date Collected: 06/03/14 12:12 Matrix: Ground Water
 Sample ID: MW-35S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030 mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10 mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
Sulfate as SO4	<2.5 mg/L	2.5	5	06/04/14	sv	06/04/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.098 mg/L	0.010	1	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	420 mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	50 mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	340 CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	44000 ug/L	1000	1000	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-18 Date Collected: 06/03/14 12:22 Matrix: Ground Water
 Sample ID: Dup-02 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045854

Benzene	1.5	ug/L	0.50	1	06/10/14	jan	06/10/14	jn		
Toluene	5.4	ug/L	0.50	1	06/10/14	jan	06/10/14	jn		
Ethylbenzene	7300	ug/L	250	500	06/11/14	klm	06/12/14	km		
m,p-Xylene	30000	ug/L	500	500	06/11/14	klm	06/12/14	km	N	
o-Xylene	8300	ug/L	250	500	06/11/14	klm	06/12/14	km	N	
Xylenes, total	38000	ug/L	750	500	06/11/14	klm	06/12/14	km		
Surrogates:										
1,2-Dichloroethane-d4	88	%	68-133	1	06/10/14	jan	06/10/14	jn		
1,2-Dichloroethane-d4	110	%	68-133	500	06/11/14	klm	06/12/14	km		
Toluene-d8	78	%	75-120	1	06/10/14	jan	06/10/14	jn		
Toluene-d8	87	%	75-120	500	06/11/14	klm	06/12/14	km		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	3000	ug/L	24	25	06/06/14	kb	06/09/14	avl		
Surrogates:										
Nitrobenzene-d5	*	%	36-103	25	06/06/14	kb	06/09/14	avl	302	
2-Fluorobiphenyl	*	%	36-119	25	06/06/14	kb	06/09/14	avl	302	
Terphenyl-d14	*	%	37-109	25	06/06/14	kb	06/09/14	avl	302	

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.19	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-18 Date Collected: 06/03/14 12:22 Matrix: Ground Water
 Sample ID: Dup-02 Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10	mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
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Sulfate as SO4	120	mg/L	2.5	5	06/04/14	sv	06/04/14	sv		
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Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.12	mg/L	0.010	1	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	450	mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	67	mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	400	CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	43000	ug/L	1000	1000	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-19 Date Collected: 06/03/14 13:44 Matrix: Ground Water
Sample ID: MW-32S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045854

Benzene	4.9 ug/L	0.50	1	06/10/14	jan	06/10/14	jn		
Toluene	0.95 ug/L	0.50	1	06/10/14	jan	06/10/14	jn		
Ethylbenzene	4200 ug/L	250	500	06/11/14	klm	06/12/14	km		
m,p-Xylene	13000 ug/L	500	500	06/11/14	klm	06/12/14	km	N	
o-Xylene	29 ug/L	0.50	1	06/10/14	jan	06/10/14	jn		N
Xylenes, total	13000 ug/L	750	500	06/11/14	klm	06/12/14	km		
Surrogates:									
1,2-Dichloroethane-d4	79 %	68-133	1	06/10/14	jan	06/10/14	jn		
1,2-Dichloroethane-d4	112 %	68-133	500	06/11/14	klm	06/12/14	km		
Toluene-d8	79 %	75-120	1	06/10/14	jan	06/10/14	jn		
Toluene-d8	87 %	75-120	500	06/11/14	klm	06/12/14	km		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	32000 ug/L	480	500	06/06/14	kb	06/10/14	avl		
Surrogates:									
Nitrobenzene-d5	* %	36-103	500	06/06/14	kb	06/10/14	avl	302	
2-Fluorobiphenyl	* %	36-119	500	06/06/14	kb	06/10/14	avl	302	
Terphenyl-d14	* %	37-109	500	06/06/14	kb	06/10/14	avl	302	

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.21 mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-19 Date Collected: 06/03/14 13:44 Matrix: Ground Water
 Sample ID: MW-32S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10	mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
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Sulfate as SO4	41	mg/L	2.5	5	06/04/14	sv	06/04/14	sv		
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Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.93	mg/L	0.010	1	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	660	mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	130	mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	700	CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	40000	ug/L	1000	1000	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-20 Date Collected: 06/03/14 14:08 Matrix: Ground Water
 Sample ID: MW-25R Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045945

Benzene	<0.50	ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Toluene	<0.50	ug/L	0.50	1	06/11/14	klm	06/11/14	km		
Ethylbenzene	<0.50	ug/L	0.50	1	06/11/14	klm	06/11/14	km		
m,p-Xylene	<1.0	ug/L	1.0	1	06/11/14	klm	06/11/14	km	N	
o-Xylene	<0.50	ug/L	0.50	1	06/11/14	klm	06/11/14	km	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/11/14	klm	06/11/14	km		

Surrogates:

1,2-Dichloroethane-d4	111	%	68-133	1	06/11/14	klm	06/11/14	km		
Toluene-d8	89	%	75-120	1	06/11/14	klm	06/11/14	km		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	5.1	ug/L	1.0	1	06/06/14	kb	06/07/14	avl		
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Surrogates:

Nitrobenzene-d5	41	%	36-103	1	06/06/14	kb	06/07/14	avl		
2-Fluorobiphenyl	41	%	36-119	1	06/06/14	kb	06/07/14	avl		
Terphenyl-d14	39	%	37-109	1	06/06/14	kb	06/07/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.097	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-20 Date Collected: 06/03/14 14:08 Matrix: Ground Water
Sample ID: MW-25R Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10 mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
Sulfate as SO4	3.7 mg/L	2.5	5	06/04/14	sv	06/04/14	sv	205	

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	0.19 mg/L	0.010	1	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	440 mg/L	40	4	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	<16 mg/L	16	4	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	550 CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	68 ug/L	2.0	2	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-21 Date Collected: 06/03/14 14:19 Matrix: Ground Water
Sample ID: MW-31S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045854

Benzene	3.1	ug/L	0.50	1	06/10/14	jan	06/10/14	jn		
Toluene	9.5	ug/L	0.50	1	06/10/14	jan	06/10/14	jn		
Ethylbenzene	4200	ug/L	250	500	06/11/14	klm	06/12/14	km		
m,p-Xylene	15000	ug/L	500	500	06/11/14	klm	06/12/14	km	N	
o-Xylene	3800	ug/L	250	500	06/11/14	klm	06/12/14	km	N	
Xylenes, total	19000	ug/L	750	500	06/11/14	klm	06/12/14	km		
Surrogates:										
1,2-Dichloroethane-d4	84	%	68-133	1	06/10/14	jan	06/10/14	jn		
1,2-Dichloroethane-d4	110	%	68-133	500	06/11/14	klm	06/12/14	km		
Toluene-d8	82	%	75-120	1	06/10/14	jan	06/10/14	jn		
Toluene-d8	88	%	75-120	500	06/11/14	klm	06/12/14	km		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	10000	ug/L	96	100	06/06/14	kb	06/10/14	avl		
Surrogates:										
Nitrobenzene-d5	*	%	36-103	100	06/06/14	kb	06/10/14	avl	302	
2-Fluorobiphenyl	*	%	36-119	100	06/06/14	kb	06/10/14	avl	302	
Terphenyl-d14	*	%	37-109	100	06/06/14	kb	06/10/14	avl	302	

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.28	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-21 Date Collected: 06/03/14 14:19 Matrix: Ground Water
 Sample ID: MW-31S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10	mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
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Sulfate as SO4	41	mg/L	2.5	5	06/04/14	sv	06/04/14	sv		
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Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	9.7	mg/L	0.10	10	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	540	mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	23	mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	900	CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	41000	ug/L	1000	1000	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-22 Date Collected: 06/03/14 15:10 Matrix: Ground Water
 Sample ID: MW-33S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045900

Benzene	<0.50 ug/L	0.50	1	06/11/14	jan	06/11/14	jn		
Toluene	9.3 ug/L	0.50	1	06/11/14	jan	06/11/14	jn		
Ethylbenzene	1.1 ug/L	0.50	1	06/11/14	jan	06/11/14	jn		
m,p-Xylene	4.0 ug/L	1.0	1	06/11/14	jan	06/11/14	jn	N	
o-Xylene	1.1 ug/L	0.50	1	06/11/14	jan	06/11/14	jn	N	
Xylenes, total	5.1 ug/L	1.5	1	06/11/14	jan	06/11/14	jn		
Surrogates:									
1,2-Dichloroethane-d4	86 %	68-133	1	06/11/14	jan	06/11/14	jn		
Toluene-d8	81 %	75-120	1	06/11/14	jan	06/11/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	5300 ug/L	48	50	06/06/14	kb	06/09/14	avl		
Surrogates:									
Nitrobenzene-d5	* %	36-103	50	06/06/14	kb	06/09/14	avl	302	
2-Fluorobiphenyl	* %	36-119	50	06/06/14	kb	06/09/14	avl	302	
Terphenyl-d14	* %	37-109	50	06/06/14	kb	06/09/14	avl	302	

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.15 mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030 mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-22 Date Collected: 06/03/14 15:10 Matrix: Ground Water
 Sample ID: MW-33S Date Received: 06/04/14 11:06

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045659

Nitrate as N	<0.10 mg/L	0.10	5	06/04/14	sv	06/04/14	sv		
Sulfate as SO4	8.4 mg/L	2.5	5	06/04/14	sv	06/04/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045690

Ammonia as N	3.4 mg/L	0.10	10	06/05/14	as	06/05/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045703

Total Dissolved Solids	470 mg/L	33	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045701

Total Suspended Solids	70 mg/L	13	3.333333	06/05/14	eb	06/05/14	eb		
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Analysis Method: SM9215B

Batch: T045671

Heterotrophic Plate Count	1000 CFU/ml	1.0	1	06/04/14	as	06/06/14	as	N	
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	11000 ug/L	250	250	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-23 Date Collected: 06/04/14 09:28 Matrix: Ground Water
 Sample ID: MW-08 Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045722

Bis(2-ethylhexyl)phthalate	21	ug/L	1.0	1	06/06/14	kb	06/09/14	avl		
Surrogates:										
Nitrobenzene-d5	68	%	36-103	1	06/06/14	kb	06/09/14	avl		
2-Fluorobiphenyl	69	%	36-119	1	06/06/14	kb	06/09/14	avl		
Terphenyl-d14	67	%	37-109	1	06/06/14	kb	06/09/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.21	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	<0.10	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	<2.5	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045850

Ammonia as N	0.26	mg/L	0.010	1	06/11/14	sv	06/12/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	440	mg/L	50	5	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	30	mg/L	20	5	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-23 Date Collected: 06/04/14 09:28 Matrix: Ground Water
Sample ID: MW-08 Date Received: 06/05/14 11:33

PARAMETERS RESULTS UNITS RDL DILUTION PREPARED BY ANALYZED BY NOTES MCL

WET CHEMISTRY

Heterotrophic Plate Count 320 CFU/ml 1.0 1 06/05/14 gmr 06/07/14 as

VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane 2800 ug/L 250 250 06/11/14 jan 06/11/14 jan N

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-24 Date Collected: 06/04/14 09:30 Matrix: Ground Water
Sample ID: MW-301 Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	1.1	ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
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Surrogates:

Nitrobenzene-d5	55	%	36-103	1	06/09/14	kb	06/09/14	avl		
2-Fluorobiphenyl	59	%	36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14	58	%	37-109	1	06/09/14	kb	06/09/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.39	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	<0.10	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	10	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045850

Ammonia as N	0.58	mg/L	0.010	1	06/11/14	sv	06/12/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	510	mg/L	40	4	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	16	mg/L	16	4	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-24 Date Collected: 06/04/14 09:30 Matrix: Ground Water
 Sample ID: MW-30I Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Heterotrophic Plate Count	79	CFU/ml	1.0	1	06/05/14	gmr	06/07/14	as		
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	8000	ug/L	500	500	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-25 Date Collected: 06/04/14 09:37 Matrix: Surface Water
Sample ID: SW-R-6 Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045857

Benzene	<0.50	ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
Toluene	<0.50	ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
Ethylbenzene	<0.50	ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
m,p-Xylene	<1.0	ug/L	1.0	1	06/10/14	klm	06/10/14	jn	N	
o-Xylene	<0.50	ug/L	0.50	1	06/10/14	klm	06/10/14	jn	N	
Xylenes, total	<1.5	ug/L	1.5	1	06/10/14	klm	06/10/14	jn		

Surrogates:

1,2-Dichloroethane-d4	108 %		68-133	1	06/10/14	klm	06/10/14	jn		
Toluene-d8	99 %		75-120	1	06/10/14	klm	06/10/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	<1.0	ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
Surrogates:										
Nitrobenzene-d5	62 %		36-103	1	06/09/14	kb	06/09/14	avl		
2-Fluorobiphenyl	68 %		36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14	78 %		37-109	1	06/09/14	kb	06/09/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-26 Date Collected: 06/04/14 10:29 Matrix: Aqueous
Sample ID: ATM-01 Date Received: 06/05/14 11:33

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045857

Benzene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
Toluene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	06/10/14	klm	06/10/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	06/10/14	klm	06/10/14	jn		

Surrogates:

1,2-Dichloroethane-d4	110 %	68-133	1	06/10/14	klm	06/10/14	jn		
Toluene-d8	98 %	75-120	1	06/10/14	klm	06/10/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
Surrogates:									
Nitrobenzene-d5	66 %	36-103	1	06/09/14	kb	06/09/14	avl		
2-Fluorobiphenyl	70 %	36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14	76 %	37-109	1	06/09/14	kb	06/09/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-27 Date Collected: 06/04/14 10:46 Matrix: Ground Water
Sample ID: MW-29S Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	2.6	ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
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Surrogates:

Nitrobenzene-d5	69	%	36-103	1	06/09/14	kb	06/09/14	avl		
2-Fluorobiphenyl	74	%	36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14	80	%	37-109	1	06/09/14	kb	06/09/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.41	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	<0.10	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	<2.5	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045850

Ammonia as N	9.5	mg/L	0.10	10	06/11/14	sv	06/12/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	570	mg/L	33	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	<13	mg/L	13	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-27 Date Collected: 06/04/14 10:46 Matrix: Ground Water
 Sample ID: MW-29S Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Heterotrophic Plate Count	7.0	CFU/ml	1.0	1	06/05/14	gmr	06/07/14	as		
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	20000	ug/L	500	500	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-28 Date Collected: 06/04/14 10:55 Matrix: Ground Water
Sample ID: MW-30SR Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	4.7	ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
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Surrogates:

Nitrobenzene-d5	67	%	36-103	1	06/09/14	kb	06/09/14	avl		
2-Fluorobiphenyl	67	%	36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14	69	%	37-109	1	06/09/14	kb	06/09/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.36	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	<0.10	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	<2.5	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045850

Ammonia as N	0.60	mg/L	0.010	1	06/11/14	sv	06/12/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	420	mg/L	33	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	17	mg/L	13	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-28 Date Collected: 06/04/14 10:55 Matrix: Ground Water
 Sample ID: MW-30SR Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Heterotrophic Plate Count	140	CFU/ml	1.0	1	06/05/14	gmr	06/07/14	as		
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	14000	ug/L	500	500	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-29 Date Collected: 06/04/14 11:12 Matrix: Aqueous
Sample ID: RB-02 Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045857

Benzene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
Toluene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
Ethylbenzene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn		
m,p-Xylene	<1.0 ug/L	1.0	1	06/10/14	klm	06/10/14	jn	N	
o-Xylene	<0.50 ug/L	0.50	1	06/10/14	klm	06/10/14	jn	N	
Xylenes, total	<1.5 ug/L	1.5	1	06/10/14	klm	06/10/14	jn		

Surrogates:

1,2-Dichloroethane-d4	112 %	68-133	1	06/10/14	klm	06/10/14	jn		
Toluene-d8	98 %	75-120	1	06/10/14	klm	06/10/14	jn		

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
Surrogates:									
Nitrobenzene-d5	68 %	36-103	1	06/09/14	kb	06/09/14	avl		
2-Fluorobiphenyl	71 %	36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14	77 %	37-109	1	06/09/14	kb	06/09/14	avl		

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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-30 Date Collected: 06/04/14 11:31 Matrix: Ground Water
Sample ID: MW-28I Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	8.3	ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
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Surrogates:

Nitrobenzene-d5	60	%	36-103	1	06/09/14	kb	06/09/14	avl		
2-Fluorobiphenyl	65	%	36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14	73	%	37-109	1	06/09/14	kb	06/09/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.29	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	<0.10	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	5.2	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045850

Ammonia as N	0.40	mg/L	0.010	1	06/11/14	sv	06/12/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	460	mg/L	33	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	<13	mg/L	13	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-30 Date Collected: 06/04/14 11:31 Matrix: Ground Water
 Sample ID: MW-28I Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Heterotrophic Plate Count	1000	CFU/ml	1.0	1	06/05/14	gmr	06/07/14	as		
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	4000	ug/L	500	500	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-31 Date Collected: 06/04/14 12:23 Matrix: Ground Water
Sample ID: MW-30D Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	1.9	ug/L	1.0	1	06/09/14	kb	06/09/14	avl		
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Surrogates:

Nitrobenzene-d5	*	32 %	36-103	1	06/09/14	kb	06/09/14	avl	802	
2-Fluorobiphenyl		37 %	36-119	1	06/09/14	kb	06/09/14	avl		
Terphenyl-d14		60 %	37-109	1	06/09/14	kb	06/09/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	<0.050	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	<0.10	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	9.5	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045850

Ammonia as N	0.063	mg/L	0.010	1	06/11/14	sv	06/12/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	360	mg/L	10	1	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	8.0	mg/L	4.0	1	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-31 Date Collected: 06/04/14 12:23 Matrix: Ground Water
 Sample ID: MW-30D Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Heterotrophic Plate Count	500	CFU/ml	1.0	1	06/05/14	gmr	06/07/14	as		
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	1000	ug/L	500	500	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-32 Date Collected: 06/04/14 12:47 Matrix: Ground Water
Sample ID: MW-28S Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	160	ug/L	2.0	2	06/09/14	kb	06/10/14	avl		
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Surrogates:

Nitrobenzene-d5	68	%	36-103	2	06/09/14	kb	06/10/14	avl		
2-Fluorobiphenyl	80	%	36-119	2	06/09/14	kb	06/10/14	avl		
Terphenyl-d14	87	%	37-109	2	06/09/14	kb	06/10/14	avl		

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.34	mg/L	0.050	1	06/06/14	kj	06/09/14	dtm		
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030	mg/L	0.0030	1	06/11/14	rw	06/13/14	rw		
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	<0.10	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	<2.5	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045967

Ammonia as N	0.18	mg/L	0.010	1	06/13/14	as	06/13/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	320	mg/L	33	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	37	mg/L	13	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-32 Date Collected: 06/04/14 12:47 Matrix: Ground Water
 Sample ID: MW-28S Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Heterotrophic Plate Count	55	CFU/ml	1.0	1	06/05/14	gmr	06/07/14	as		
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	8400	ug/L	500	500	06/11/14	jan	06/11/14	jan	N	
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ANALYTICAL RESULTS

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-33 Date Collected: 06/04/14 13:15 Matrix: Ground Water
Sample ID: MW-27S Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260B

Batch: T045957

Benzene	<0.50 ug/L	0.50	1	06/12/14	klm	06/12/14	km			
Toluene	<0.50 ug/L	0.50	1	06/12/14	klm	06/12/14	km			
Ethylbenzene	<0.50 ug/L	0.50	1	06/12/14	klm	06/12/14	km			
m,p-Xylene	<1.0 ug/L	1.0	1	06/12/14	klm	06/12/14	km		N	
o-Xylene	<0.50 ug/L	0.50	1	06/12/14	klm	06/12/14	km		N	
Xylenes, total	<1.5 ug/L	1.5	1	06/12/14	klm	06/12/14	km			

Surrogates:

1,2-Dichloroethane-d4	116 %	68-133	1	06/12/14	klm	06/12/14	km			
Toluene-d8	85 %	75-120	1	06/12/14	klm	06/12/14	km			

SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8270C

Batch: T045769

Bis(2-ethylhexyl)phthalate	<1.0 ug/L	1.0	1	06/09/14	kb	06/09/14	avl			
Surrogates:										
Nitrobenzene-d5	68 %	36-103	1	06/09/14	kb	06/09/14	avl			
2-Fluorobiphenyl	69 %	36-119	1	06/09/14	kb	06/09/14	avl			
Terphenyl-d14	71 %	37-109	1	06/09/14	kb	06/09/14	avl			

METALS, TOTAL

Analysis Method: EPA 6010B

Batch: T045741

Phosphorus	0.072 mg/L	0.050	1	06/06/14	kj	06/09/14	dtm			
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METALS, DISSOLVED

Analysis Method: EPA 6020

Batch: T045860

Lead	<0.0030 mg/L	0.0030	1	06/11/14	rw	06/13/14	rw			
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ANALYTICAL RESULTS

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

Trace ID: T14F048-33 Date Collected: 06/04/14 13:15 Matrix: Ground Water
 Sample ID: MW-27S Date Received: 06/05/14 11:33

PARAMETERS	RESULTS	UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
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WET CHEMISTRY

Analysis Method: EPA 300.0 Rev. 2.1

Batch: T045715

Nitrate as N	2.3	mg/L	0.10	5	06/05/14	sv	06/05/14	rbp		
Sulfate as SO4	38	mg/L	2.5	5	06/09/14	sv	06/09/14	sv		

Analysis Method: EPA 350.1 Rev. 2.0

Batch: T045850

Ammonia as N	<0.010	mg/L	0.010	1	06/11/14	sv	06/12/14	as		
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Analysis Method: SM 2540 C-97

Batch: T045818

Total Dissolved Solids	530	mg/L	33	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM 2540 D-97

Batch: T045817

Total Suspended Solids	47	mg/L	13	3.333333	06/10/14	eb	06/10/14	eb		
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Analysis Method: SM9215B

Batch: T045718

Heterotrophic Plate Count	800	CFU/ml	1.0	1	06/05/14	gmr	06/07/14	as		
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VOLATILE ORGANIC COMPOUNDS BY GC

Analysis Method: RSK-175(MOD) / ISOTECH

Batch: T045875

Methane	2.9	ug/L	1.0	1	06/11/14	jan	06/11/14	jan	N	
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QUALITY CONTROL RESULTS

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045875

Analysis Description: Dissolved Gases

QC Batch Method: RSK-175(MOD) / ISOTECH

Analysis Method: RSK-175(MOD) / ISOTECH

METHOD BLANK: T045875-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Methane	ug/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T045875-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Methane	ug/L	12.8	13.2	103	70-130	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T045875-MSD1

Original: T14F048-20

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Methane	ug/L	67.7	12.8	78.0	76.7	80	70	70-130	13	15	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045741

Analysis Description: Phosphorus, Total

QC Batch Method: EPA 3015 Microwave Assisted Digestions for Liquids

Analysis Method: EPA 6010B

METHOD BLANK: T045741-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Phosphorus	mg/L	<0.050	0.050	

LABORATORY CONTROL SAMPLE: T045741-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Phosphorus	mg/L	17.8	16.8	95	80-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T045741-MSD1

Original: T14F048-20

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Phosphorus	mg/L	0.0971	17.8	17.2	17.4	96	97	75-125	1	20	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

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QC Batch: T045860

Analysis Description: Lead, Dissolved

QC Batch Method:

Analysis Method: EPA 6020

METHOD BLANK: T045860-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Lead	mg/L	<0.0030	0.0030	

LABORATORY CONTROL SAMPLE: T045860-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Lead	mg/L	0.0500	0.0501	100	80-120	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T045860-MSD1

Original: T14F048-20

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max DDN	Notes
Lead	mg/L	0	0.0500	0.0482	0.0476	96	95	75-125	1	20	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045669

Analysis Description: Filtration for Dissolved Metals

QC Batch Method:

Analysis Method: Dissolved Metals

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045699

Analysis Description: Filtration for Dissolved Metals

QC Batch Method:

Analysis Method: Dissolved Metals

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045722

Analysis Description: Semi-volatiles, Phthalates only

QC Batch Method: EPA 3510C Separatory Funnel
Liquid-Liquid Extr.

Analysis Method: EPA 8270C

METHOD BLANK: T045722-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<1.0	1.0	
Nitrobenzene-d5 (S)	%	53	36-103	
2-Fluorobiphenyl (S)	%	54	36-119	
Terphenyl-d14 (S)	%	59	37-109	

LABORATORY CONTROL SAMPLE: T045722-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
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LABORATORY CONTROL SAMPLE: T045722-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	58.3	58	57-107	
Nitrobenzene-d5 (S)	%	100	62.0	62	36-103	
2-Fluorobiphenyl (S)	%	101	61.1	61	36-119	
Terphenyl-d14 (S)	%	100	56.6	57	37-109	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T045722-MSD1

Original: T14F048-20

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max DDN	Notes
Bis(2-ethylhexyl)phthalate	ug/L	5.06	98.0	53.3	79.3	51	76	52-106	40	29	237.5
Nitrobenzene-d5 (S)	%		98.0	43.1	72.7	45	74	36-103			
2-Fluorobiphenyl (S)	%		99.0	44.4	76.1	46	77	36-119			
Terphenyl-d14 (S)	%		98.0	50.7	73.9	53	75	37-109			

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045769

Analysis Description: Semi-volatiles, Phthalates only

QC Batch Method: EPA 3510C Separatory Funnel

Analysis Method: EPA 8270C

Liquid-Liquid Extr.

METHOD BLANK: T045769-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	<1.0	1.0	
Nitrobenzene-d5 (S)	%	70	36-103	
2-Fluorobiphenyl (S)	%	75	36-119	
Terphenyl-d14 (S)	%	105	37-109	

LABORATORY CONTROL SAMPLE: T045769-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Bis(2-ethylhexyl)phthalate	ug/L	100	105	105	57-107	
Nitrobenzene-d5 (S)	%	100	80.9	81	36-103	
2-Fluorobiphenyl (S)	%	101	85.9	85	36-119	
Terphenyl-d14 (S)	%	100	95.5	96	37-109	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045730

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T045730-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes

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METHOD BLANK: T045730-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	108	68-133	
Toluene-d8 (S)	%	102	75-120	

LABORATORY CONTROL SAMPLE: T045730-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	22.6	113	80-120	
Toluene	ug/L	20.0	21.6	108	80-120	
1,2-Dichloroethane-d4 (S)	%	65.0	68.0	105	68-133	
Toluene-d8 (S)	%	60.0	59.5	99	75-120	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045806

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T045806-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	76	68-133	
Toluene-d8 (S)	%	81	75-120	

LABORATORY CONTROL SAMPLE: T045806-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	16.9	84	80-120	
Toluene	ug/L	20.0	17.1	86	80-120	
1,2-Dichloroethane-d4 (S)	%	49.9	38.2	77	68-133	
Toluene-d8 (S)	%	49.9	39.0	78	75-120	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

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QC Batch: T045809

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T045809-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	110	68-133	
Toluene-d8 (S)	%	98	75-120	

LABORATORY CONTROL SAMPLE: T045809-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	22.9	115	80-120	
Toluene	ug/L	20.0	20.8	104	80-120	
1,2-Dichloroethane-d4 (S)	%	65.0	68.0	105	68-133	
Toluene-d8 (S)	%	60.0	59.2	99	75-120	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045854

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T045854-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	89	68-133	
Toluene-d8 (S)	%	79	75-120	

LABORATORY CONTROL SAMPLE: T045854-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	21.5	107	80-120	
Toluene	ug/L	20.0	21.3	106	80-120	
1,2-Dichloroethane-d4 (S)	%	49.9	40.8	82	68-133	
Toluene-d8 (S)	%	49.9	40.1	80	75-120	

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Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045857

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 5030B Purge-and-Trap for
Aqueous Samples

Analysis Method: EPA 8260B

METHOD BLANK: T045857-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	107	68-133	
Toluene-d8 (S)	%	97	75-120	

LABORATORY CONTROL SAMPLE: T045857-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	23.0	115	80-120	
Toluene	ug/L	20.0	21.1	105	80-120	
1,2-Dichloroethane-d4 (S)	%	65.0	67.2	103	68-133	
Toluene-d8 (S)	%	60.0	59.3	99	75-120	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045900

Analysis Description: Volatiles, BTEX/MTBE (GC/MS)

QC Batch Method: EPA 8260B

Analysis Method: EPA 8260B

METHOD BLANK: T045900-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	86	68-133	
Toluene-d8 (S)	%	81	75-120	

LABORATORY CONTROL SAMPLE: T045900-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	17.6	88	80-120	
Toluene	ug/L	20.0	17.8	89	80-120	

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LABORATORY CONTROL SAMPLE: T045900-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
1,2-Dichloroethane-d4 (S)	%	49.9	41.3	83	68-133	
Toluene-d8 (S)	%	49.9	39.9	80	75-120	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045945	Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous Samples	Analysis Method: EPA 8260B

METHOD BLANK: T045945-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	115	68-133	
Toluene-d8 (S)	%	89	75-120	

LABORATORY CONTROL SAMPLE: T045945-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	20.0	19.8	99	80-120	
Toluene	ug/L	20.0	20.3	102	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	33.5	112	68-133	
Toluene-d8 (S)	%	30.0	27.3	91	75-120	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045957	Analysis Description: Volatiles, BTEX/MTBE (GC/MS)
QC Batch Method: EPA 5030B Purge-and-Trap for Aqueous Samples	Analysis Method: EPA 8260B

METHOD BLANK: T045957-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Benzene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
1,2-Dichloroethane-d4 (S)	%	77	68-133	
Toluene-d8 (S)	%	86	75-120	

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LABORATORY CONTROL SAMPLE: T045957-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	50.0	53.1	106	80-120	
Toluene	ug/L	50.0	51.8	104	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	33.3	111	68-133	
Toluene-d8 (S)	%	30.0	25.7	86	75-120	

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045659	Analysis Description: Nitrate
QC Batch Method: IC Prep W	Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T045659-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Nitrate as N	mg/L	<0.075	0.075	
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T045659-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nitrate as N	mg/L	0.500	0.477	95	90-110	
Sulfate as SO4	mg/L	2.50	2.60	104	90-110	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T045659-MSD1 Original: T14F048-20

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max DDN	Notes
Nitrate as N	mg/L	0	6.00	5.44	5.39	91	90	80-120	0.9	20	
Sulfate as SO4	mg/L	3.67	30.0	25.3	24.2	72	68	80-120	5	20	205

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045715	Analysis Description: Nitrate
QC Batch Method: IC Prep W	Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T045715-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Nitrate as N	mg/L	<0.075	0.075	

LABORATORY CONTROL SAMPLE: T045715-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
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LABORATORY CONTROL SAMPLE: T045715-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Nitrate as N	mg/L	0.500	0.516	103	90-110	

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045775	Analysis Description: Sulfate
QC Batch Method: IC Prep W	Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T045775-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T045775-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Sulfate as SO4	mg/L	2.50	2.42	97	90-110	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T045775-MSD1 Original: T14F048-27

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max DDN	Notes
Sulfate as SO4	mg/L	0	30.0	24.4	24.1	81	80	80-120	1	20	

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045776	Analysis Description: Sulfate
QC Batch Method: IC Prep W	Analysis Method: EPA 300.0 Rev. 2.1

METHOD BLANK: T045776-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Sulfate as SO4	mg/L	<1.0	1.0	

LABORATORY CONTROL SAMPLE: T045776-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Sulfate as SO4	mg/L	2.50	2.42	97	90-110	

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045690	Analysis Description: Nitrogen, Ammonia
QC Batch Method: EPA 350.1 Rev. 2.0	Analysis Method: EPA 350.1 Rev. 2.0

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METHOD BLANK: T045690-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Ammonia as N	mg/L	<0.010	0.010	

LABORATORY CONTROL SAMPLE: T045690-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Ammonia as N	mg/L	1.00	0.999	100	90-110	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T045690-MSD1 Original: T14F048-20

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
Ammonia as N	mg/L	0.193	0.500	0.721	0.701	106	102	90-110	4	7.9	

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045850	Analysis Description: Nitrogen, Ammonia
QC Batch Method: EPA 350.1 Rev. 2.0	Analysis Method: EPA 350.1 Rev. 2.0

METHOD BLANK: T045850-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Ammonia as N	mg/L	<0.010	0.010	

LABORATORY CONTROL SAMPLE: T045850-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Ammonia as N	mg/L	0.500	0.454	91	90-110	

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045967	Analysis Description: Nitrogen, Ammonia
QC Batch Method: EPA 350.1 Rev. 2.0	Analysis Method: EPA 350.1 Rev. 2.0

METHOD BLANK: T045967-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Ammonia as N	mg/L	<0.010	0.010	

LABORATORY CONTROL SAMPLE: T045967-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Ammonia as N	mg/L	0.500	0.451	90	90-110	

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Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045703

Analysis Description: Total Dissolved Solids

QC Batch Method: SM 2540 C-97

Analysis Method: SM 2540 C-97

METHOD BLANK: T045703-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	<10	10	

LABORATORY CONTROL SAMPLE: T045703-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	499	100	80-120	

SAMPLE DUPLICATE: T045703-DUP1

Original: T14F048-20

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	436	432	0.9	10	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045818

Analysis Description: Total Dissolved Solids

QC Batch Method: SM 2540 C-97

Analysis Method: SM 2540 C-97

METHOD BLANK: T045818-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Dissolved Solids	mg/L	16.0	10	B

LABORATORY CONTROL SAMPLE: T045818-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Dissolved Solids	mg/L	500	459	92	80-120	

SAMPLE DUPLICATE: T045818-DUP1

Original: T14F048-23

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Dissolved Solids	mg/L	435	410	6	10	

Trace Project ID: T14F048

Client Project ID: LEC 212321.000001.000000

QC Batch: T045701

Analysis Description: Total Suspended Solids

QC Batch Method: SM 2540 D-97

Analysis Method: SM 2540 D-97

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METHOD BLANK: T045701-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<10	10	

LABORATORY CONTROL SAMPLE: T045701-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	50.0	57.0	114	85-115	

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045817	Analysis Description: Total Suspended Solids
QC Batch Method: SM 2540 D-97	Analysis Method: SM 2540 D-97

METHOD BLANK: T045817-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Total Suspended Solids	mg/L	<10	10	

LABORATORY CONTROL SAMPLE: T045817-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Total Suspended Solids	mg/L	50.0	46.0	92	85-115	

SAMPLE DUPLICATE: T045817-DUP1 Original: T14F048-23

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Total Suspended Solids	mg/L	30.0	145	131	10	623

Trace Project ID: T14F048
Client Project ID: LEC 212321.000001.000000

QC Batch: T045671	Analysis Description: Heterotrophic Plate Count
QC Batch Method: SM9215B	Analysis Method: SM9215B

METHOD BLANK: T045671-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Heterotrophic Plate Count	CFU/ml	<1.0	1.0	

SAMPLE DUPLICATE: T045671-DUP1 Original: T14F048-20

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Notes
Heterotrophic Plate Count	CFU/ml	550	480	14	200	

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 www.trace-labs.com

Trace Project ID: T14F048
 Client Project ID: LEC 212321.000001.000000

QC Batch: T045718	Analysis Description: Heterotrophic Plate Count
QC Batch Method: SM9215B	Analysis Method: SM9215B

METHOD BLANK: T045718-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Heterotrophic Plate Count	CFU/ml	<1.0	1.0	

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CHAIN-OF-CUSTODY RECORD

Page 1 of 3

TRACE ID NO. T14F048

Logged By: JW

Checked By: MW

Received on ice: Yes No

Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

Report Results To: Client Name: TRC
Contact Person: Scott Paulkiewicz
Mailing Address: 2025 East Beltline Ave Ste 402
City, State, Zip Code: Grand Rapids MI 49546
Phone: 616-935-5715 Fax:
Email Address: SPaulkiewicz@tracelabs.com
Cell #:
Project Name & #: LEC 212321.000001.000000
Sampled by: DMJ, SL, PMS

Bill To: Billing Address (if different):
City, State, Zip Code Windsor CT
Phone:
PO #:

Regulatory Requirements: MEPA TMDLs, Drinking Water, NPDES, USACE, Special
Turnaround Requirements: Standard, 3-4 Day (RUSH)*, 24-48 Hour (RUSH)*
Matrix Key: S = Soil, W = Water, SE = Sediment, OI = Oil, SO = Solid Waste
WI = Wipes, LW = Liquid Waste, A = Air, D = Drinking Water, SL = Sludge
ANALYSIS REQUESTED

Table with columns: TRACE NO., DATE TAKEN, TIME TAKEN, METALS FIELD FILTERED, CLIENT SAMPLE ID, MATRIX, NUMBER OF CONTAINERS, RELEASED BY, RECEIVED BY, DATE, TIME, REMARKS. Includes handwritten entries for items 01-10 and 11-14.

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CHAIN-OF-CUSTODY RECORD

Page 2 of 3

TRACE ID NO. T14F048

Report Results To:

Client Name: TRC

Contact Person: Scott Paulkiewicz

Mailing Address: 2025 East Bethlie Ave Ste 402

City, State, Zip Code: Grand Rapids MI 49546

Phone: 616-925-5415 Fax: _____

Email Address: SPaulkiewicz@trcsolutions.com

Cell #: _____

Project Name & #: LEC 012301, 000002, 000000

Sampled by: DMRPS, JL

TRACE USE ONLY

Logged By: JW Checked By: dk

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time: _____

Regulatory Requirements

MERA TMDLs Standard Turnaround Requirements 3-4 Day (RUSH)* 24-48 Hour (RUSH)* Requires prior approval

Drinking Water NPDES USACE Special

Matrix Key

S = Soil W = Water SE = Sediment
 LW = Liquid Waste A = Air
 D = Drinking Water SL = Sludge

ANALYSIS REQUESTED

BTEX DEHP CH4 NO2/NOx/CO/1,2-D/1,4-D
MH2/P Di-n-Lead HPC

Bill To:

Billing Address (if different): _____

City, State, Zip Code: Windsor CT

Phone: _____ PO #: _____

TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBER OF CONTAINERS	REMARKS
11	06/02/14	1342R		SW-D-1	W	4	
12	06/02/14	1430		RB-01	W	4	
13	06/03/14	0908		MW-19-7R	W	2	
14	06/03/14	0930		MW-19-13	W	2	
15	06/03/14	1058		MW-345	W	2	
16	06/03/14	1120		MW-19-5R	W	2	
17	06/03/14	1212		MW-355	W	2	
18	06/03/14	1222		MW DUF-02	W	2	
19	06/03/14	1344		MW-323	W	2	
20	06/03/14	1408		MW-35R	W	2	

Item #	RELEASED BY	RECEIVED BY	DATE	TIME	Item #	RELEASED BY	RECEIVED BY	DATE	TIME
1	<u>JM</u>	<u>FEBEL</u>	06/03/14	1345	3				
2	<u>FEO</u>	<u>[Signature]</u>	06/04/14	11:06	4				

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CHAIN-OF-CUSTODY RECORD

Page 3 of 3

TRACE ID NO. T14F048

Report Results To:

Client Name: TRC

Contact Person: S. Pavlovich

Mailing Address: 2025 East Arthur Ave Rt 602

City, State, Zip Code: Grand Rapids MI 49546

Phone: 616-975-5715 Fax: _____

Email Address: S.Pavlovich@trace-labs.com

Cell #: _____

Project Name & #: LEC 112321.000001.000000

Sampled by: DRS, DL, DM

Bill To:

Billing Address (if different): _____

City, State, Zip Code: Windsor CT

Attn: _____ Phone: _____ PO #: _____

TRACE USE ONLY

Logged By: JW Checked By: [Signature]

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time: _____

Regulatory Requirements

MERPA TMDLs Drinking Water NPDES USACE Special

Turnaround Requirements

Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)* * Requires prior approval

Matrix Key

S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste

WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge

ANALYSIS REQUESTED

Request for Analytical Services				Please Sign			
TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED	CLIENT SAMPLE ID	MATRIX	NUMBER OF CONTAINERS	REMARKS
20	06/03/14	1413	Y	MW-25R (MS/MSD)	M10	2	BTET
21	06/03/14	1419	Y	MW-315	M10	2	DEHP
22	06/03/14	1510	Y	MW-335	M10	2	CHX
							Non-Det/MS/TDS
							MHg/F
							Diss Lead
							HPL
							Possible Health Hazard

Item #	RELEASED BY	RECEIVED BY	DATE	TIME	Item #	RELEASED BY	RECEIVED BY	DATE	TIME
1)	[Signature]	FELIX	06/03/14	1245	3)				
2)	[Signature]	[Signature]	6/4/14	11:06	4)				

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CHAIN-OF-CUSTODY RECORD

Page 1 of 2

TRACE ID NO. 114F048

Report Results To:

Client Name: TRC

Contact Person: Scott Paulkiewicz

Mailing Address: 2025 East Beltline Ave Ste 700

City, State, Zip Code: Grand Rapids MI 49506

Phone: 616-975-5415 Fax: _____

Email Address: Spaulkiewicz@fcsolutions.com

Cell #: _____

Project Name & #: LEC 212 321.000001.000000

Sampled by: DPJ, JL, DM

Bill To:

Billing Address (if different) _____

City, State, Zip Code: Windsor CT

Attn: _____ Phone: _____ PO #: _____

TRACE USE ONLY

Logged By: JW Checked By: DPJ

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time: _____

Regulatory Requirements: MERA TMDL's Drinking Water NPDES USACE Special

Turnaround Requirements: Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)* * Requires prior approval

Matrix Key: S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste

WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge

Request for Analytical Services		Please Sign	
TRACE NO.	DATE TAKEN	TIME TAKEN	METALS FIELD FILTERED
03	06/04/14	0928	Y
04	06/04/14	0930	Y
05	06/04/14	0937	Y
06	06/04/14	1029	Y
07	06/04/14	1046	Y
08	06/04/14	1055	Y
09	06/04/14	1112	Y
10	06/04/14	1131	Y
11	06/04/14	1223	Y
12	06/04/14	1247	Y

Item #	RELEASED BY	RECEIVED BY	DATE	TIME	Item #	RELEASED BY	RECEIVED BY	DATE	TIME
1)	<u>DPJ</u>	<u>Felix</u>	06/04/14	1430	3)				
2)		<u>DPJ</u>	06/05/14	1133	4)				

ANALYSIS REQUESTED

BTX
 DEHP
 CH4
 NO2/NO/NO2/NO3/TDS
 NH4/N
 Disinfectant
 HPLC

REMARKS

Possible Health Hazard

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CHAIN-OF-CUSTODY RECORD

Page 2 of 2

TRACE ID NO. T14F048

Report Results To:

Client Name: TRC

Contact Person: Scott Kulickiewicz

Mailing Address: 2025 East Melville Ave Ste 402

City, State, Zip Code: Grand Rapids MI 49506

Phone: 616-975-5415 Fax: _____

Email Address: Skulickiewicz@resolutions.com

Cell #: _____

Project Name & #: _____

Sampled by: JL, DB, DM

Bill To:

Billing Address (if different): _____

City, State, Zip Code: Windsor CT

Phone: _____ PO #: _____

TRACE USE ONLY

Logged By: JW Checked By: AW

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time: _____

Regulatory Requirements

MIRA TMDLs Drinking Water NPDES USACE Special

Turnaround Requirements

Standard 3-4 Day (RUSH)* 24-48 Hour (RUSH)* * Requires prior approval

Matrix Key

S = Soil W = Water SE = Sediment OI = Oil SO = Solid Waste WI = Wipes LW = Liquid Waste A = Air D = Drinking Water SL = Sludge

ANALYSIS REQUESTED

Please Sign		Request for Analytical Services				Item #		Released By		Received By		Date		Time	
Item #	Released By	Item #	Trace No.	Date Taken	Time Taken	Metals Field Filtered	Client Sample ID	Matrix	Number of Containers	Item #	Released By	Item #	Date	Time	
1)	<u>S. Paul</u>	1)	<u>060714</u>	<u>1315</u>	<u>Y</u>		<u>MW-27S</u>	<u>W10</u>	<u>2</u>	2	<u>Fader</u>	3)	<u>060714</u>	<u>1430</u>	
2)	<u>[Signature]</u>	2)								4)		4)	<u>6/5/14</u>	<u>11:43</u>	

Handwritten notes in Remarks column:
 BTEX
 DEHP
 CHL
 No. 504/T35/TD5
 NH₂P
 Diss. Lead
 HPLC

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048 **SAMPLE LOG IN CHECKLIST**

Trace ID #: T14F048 Date: 6/4/14 Package Description: Coolant #1
Client Name: TAL Time: 11:06 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 8058 5115 3985
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.1</u> °C Digital Stick Thermometer <u>-0.1</u> °C Temperature Blank: <u>1.0</u> °C (Use Digital Stick Thermometer) Range of 3 samples: <u>2.0-3.0</u> °C (Use IR Thermometer) Melt Water: <u>Ø</u> °C (IR or Stick Therm. - circle one) Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
---	---

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: 1HC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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0448 JW **SAMPLE LOG IN CHECKLIST**

Trace ID #: T14F046 6/4 Date: 6/4/14 Package Description: COOLER #2
Client Name: TALC Time: 11:06 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 7800 0432 4453
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used
Slurry w/ crushed, cubed, or chip ice?
Multiple bags of ice around samples?
Ice Packs/ Blue Ice:
No Coolant Present:
Cooler Temperature
Correction Factor: IR Thermometer 0.1 °C
Digital Stick Thermometer 0.1 °C
Temperature Blank: 1.9 °C (Use Digital Stick Thermometer)
Range of 3 samples: 1.0 - 2.0 °C (Use IR Thermometer)
Melt Water: 0 °C (IR or Stick Therm. - circle one)
Ice still present upon receipt: Yes No

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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JW
0486/14

SAMPLE LOG IN CHECKLIST

Trace ID #: T14F046 Date: 6/4/14 Package Description: COOLANT #3
Client Name: TAL Time: 11:06 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 7800 0432 4420
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice?
Multiple bags of ice around samples?
Ice Packs/ Blue Ice :
No Coolant Present:

Cooler Temperature

Correction Factor: IR Thermometer 0.1 °C
Digital Stick Thermometer -0.1 °C
Temperature Blank: 1.0 °C (Use Digital Stick Thermometer)
Range of 3 samples: 1.0-3.0 °C (Use IR Thermometer)
Melt Water: Ø °C (IR or Stick Therm. - circle one)
Ice still present upon receipt: Yes No

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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OCG JW

SAMPLE LOG IN CHECKLIST

Trace ID #: T14F046 Date: 6/4/14 Package Description: COOLER #4
Client Name: TLL Time: 11:06 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 7800 0432 4431
COC Seals present and intact on cooler? No Not Applicable
Yes
Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.1</u> °C Digital Stick Thermometer <u>-0.1</u> °C</p> <p>Temperature Blank: <u>1.7</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>1.0 - 2.0</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>Ø</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
---	---

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: 1 HC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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048 6/4 **SAMPLE LOG IN CHECKLIST**

Trace ID #: T14F048 Date: 6/4/14 Package Description: COOLBA #5
Client Name: TLC Time: 11:06 Logged in by: JW

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 78000432 4442
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used

Slurry w/ crushed, cubed, or chip ice?
Multiple bags of ice around samples?
Ice Packs/ Blue Ice:
No Coolant Present:

Cooler Temperature

Correction Factor: IR Thermometer 0.1 °C
Digital Stick Thermometer -0.1 °C
Temperature Blank: 2.6 °C (Use Digital Stick Thermometer)
Range of 3 samples: 3.0-4.0 °C (Use IR Thermometer)
Melt Water: Ø °C (IR or Stick Therm. - circle one)
Ice still present upon receipt: Yes No

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Below*
Correct preservative added to samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Air bubbles absent from VOAs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14F048 Date: 6/5/14 Package Description: COOLANT # 2
Client Name: TRC Time: 11:07 Logged in by: JV

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 6058 5115 3117
COC Seals present and intact on cooler? No Not Applicable
Yes
Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice: <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.1</u> °C Digital Stick Thermometer <u>-0.1</u> °C</p> <p>Temperature Blank: <u>3.0</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>10-30</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
--	---

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes: _____

*EMD pH Test Strips Used:

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254

Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14F048 Date: 6/5/14 Package Description: COOLANT #1
Client Name: TNC Time: 11:07 Logged in by: JV

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: 6058 515 3117
COC Seals present and intact on cooler? No Not Applicable
Yes
Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice: <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.1</u> °C Digital Stick Thermometer <u>-0.1</u> °C</p> <p>Temperature Blank: <u>1.0</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>6.0-3.0</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
--	---

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below*
Correct preservative added to samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: IHC390427 pH 11.0-13.0 Lot: HC949254
 Other: _____

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SAMPLE LOG IN CHECKLIST

Trace ID #: T14F048 Date: 6/5/14 Package Description: COOLM #3
Client Name: TRC Time: 11:07 Logged in by: JV

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail

Tracking Number: Not Applicable
Tracking #: 6058 5115 3117

COC Seals present and intact on cooler? No Not Applicable
Yes

Custody seals signed by Client? No Client custody seal # (if applicable): _____
Yes

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input checked="" type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice : <input type="checkbox"/></p> <p>No Coolant Present: <input type="checkbox"/></p>	<p>Cooler Temperature</p> <p>Correction Factor: IR Thermometer <u>0.1</u> °C Digital Stick Thermometer <u>-0.1</u> °C</p> <p>Temperature Blank: <u>2.0</u> °C (Use Digital Stick Thermometer)</p> <p>Range of 3 samples: <u>1.0-3.0</u> °C (Use IR Thermometer)</p> <p>Melt Water: <u>0</u> °C (IR or Stick Therm. - circle one)</p> <p>Ice still present upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
---	---

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Below*
Correct preservative added to samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Air bubbles absent from VOAs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 Lot: I HC390427 pH 11.0-13.0 Lot: HC949254

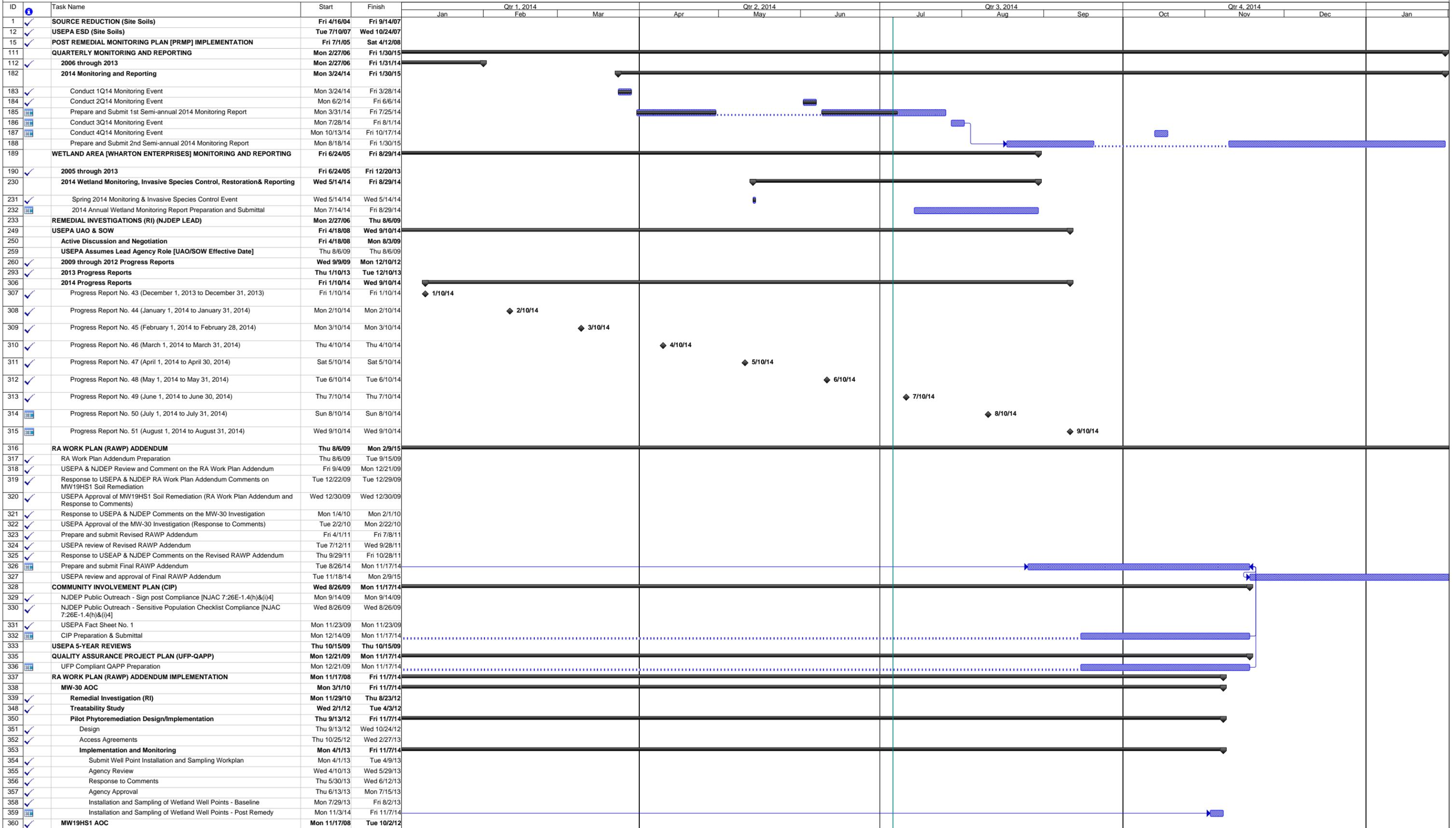
Other: _____

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Appendix C

Project Schedule



Legend for task types and milestones:

- Task: Solid blue bar
- Split: Dotted blue bar
- Milestone: Diamond symbol
- Summary: Solid black bar
- Rolled Up Milestone: Solid black bar with diamond
- Rolled Up Progress: Solid black bar with diamond
- External Tasks: Dotted black bar
- Project Summary: Solid black bar with diamond
- External Milestone: Solid black bar with diamond
- Inactive Task: Solid grey bar
- Inactive Milestone: Solid grey bar with diamond
- Inactive Summary: Solid grey bar with diamond
- Manual Summary Rollup: Solid grey bar with diamond
- Manual Summary: Solid grey bar
- Manual Task: Solid white bar
- Start-only: Solid blue bar with arrow
- Finish-only: Solid blue bar with arrow
- Progress: Solid blue bar with arrow
- Deadline: Solid black bar with arrow